

REMEDIAL INVESTIGATION REPORT/ REMEDIAL ACTION WORKPLAN (RIR/RAW)

Property Known As:

Three Y, LLC Properties
163 Old River Road, Block 93, Lots 1 and 2
Edgewater, Bergen County, New Jersey

Prepared for:

Three Y, LLC 115 River Road, Suite 101 Edgewater, New Jersey

August 30, 2006

Submitted by:

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#### 1.0 INTRODUCTION

Three Y, LLC (Three Y) retained Environmental Waste Management Associates, LLC (EWMA) to prepare this Remedial Investigation Report/ Remedial Action Workplan (RIR/RAW) for documenting the results of a soil and ground water investigation conducted on its subject property located at 163 Old River Road, Edgewater, NJ (Block 93, Lots 1 & 2) (Figure 1). The investigation was conducted following the work proposed and procedures outlined in the October 27, 2004 Remedial Investigation Workplan (RIW) prepared by EWMA. The initial field investigation was undertaken in February and March of 2005. Additional investigations were performed in August and November, 2005.

The subject property is currently proposed for redevelopment and reuse by Three Y for commercial use. However, the Borough of Edgewater has not yet authorized the proposed redevelopment at the subject property due to the inclusion of the subject property within the limits of the Quanta Resources Corporation (QRC) Superfund site and placement on the National Priority List (NPL) by the United States Environmental Protection Agency (USEPA) in September 2002.

Based upon a review of the available public information, Three Y states that USEPA's description of the QRC site limits outlined in the initial proposal of January 2001 to add it to the NPL List did not include the limits of the subject property (i.e. Block 93, Lots 1 and 2). However, USEPA revised the QRC site description in the final proposal to include the subject property, which was subsequently placed on the NPL List. Three Y contends that USEPA's subsequent inclusion of the subject property within the QRC site limits and its placement on the NPL List was arbitrary and based on inadequate environmental data.

Three Y wishes to seek a delisting of the subject property from the NPL List and gain approval for the redevelopment of the subject property from USEPA and the Borough of Edgewater. To this end, Three Y has voluntarily undertaken the soil and ground water investigation, as covered by this report, in order to evaluate the environmental conditions at the subject property, and to conduct any additional delineation and/or remediation necessary in order to achieve its desired goals. A review of past investigation reports related to the QRC site and correspondences among relevant parties indicates that USEPA has previously suggested and/or acknowledged a need for further investigation on the subject property in order to determine any impacts from the former QRC operations.

The objectives of EWMA's soil and ground-water investigation described in this report were as follows:

 To determine the presence of soil and/or ground-water contamination on the subject property that may be directly related to or from industrial operations associated with the adjacent QRC Superfund site. Specifically, the investigation evaluated the presence of



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source contamination related to coal-tar and waste-oil products primarily used as part of the past operations at the QRC site;

- To delineate horizontal and vertical extent of the source contamination in soil and ground water through a combination of visual observation, photo-ionization detector (PID) screening, field-screening kit (i.e. "Oil-in-Soil" or Sudan IV kit) for field-based rapid decision making, and laboratory analysis;
- To determine if soil and/or ground-water contamination exists above the current regulatory clean-up criteria. For this purpose, EWMA has used the New Jersey Department of Environmental Protection (NJDEP) Soil Cleanup Criteria (SCC) and Ground Water Quality Standards (GWQS);
- To determine if remediation, engineering controls, and/or institutional controls would be necessary to ensure compliance with the NJDEP criteria and standards prior to the redevelopment of the subject property.

#### 2.0 BACKGROUND

In 1999, Three Y, LLC purchased the property with the intended purpose of redeveloping it for significant commercial use. A restaurant by the name of Jono's is present on the subject property.

On January 11, 2001, the subject property was proposed for inclusion in the USEPA National Priority List (NPL) by the proposed rule 66 Fed. Reg. 2380. The relevant section describes the site in the NPL Listing Notice as follows:

The Quanta Resources Corporation (QRC) site is located at 163 River Road in Edgewater, Bergen County, New Jersey. The site covers approximately 8 acres since the expansion of River Road took over a portion of the site. The site property is bordered to the north by the Celotex Industrial Park, to the south by the former Spencer-Kellogg Industrial Park, to the west by River Road, and to the east by the Hudson River.

Under the Administrative Consent Order (ACO) with USEPA, Honeywell (formerly Allied-Signal), the principal responsible party (PRP) for the QRC site, contracted GeoSyntec Consultants to conduct a Removal Site Investigation (RSI) at the QRC site. This investigation was conducted in 1998 and 1999 and included the collection of surface and subsurface soil samples collected from QRC property as well as from properties in the vicinity of the QRC property, ground water samples collected from monitoring wells, and sediment samples collected from the Hudson River. Based on the results of activities conducted during the RSI, heavy coaltar product was found in the subsurface and estimated to extend from the area west of where the new River Road exists (i.e. on adjacent Lot 3) to approximately 750 feet into the Hudson River. However, the western extent of the coal-tar (on Lot 3) was based on one (1) former soil boring location where a hard coal-tar pitch was identified at a depth of seven (7) feet below ground surface. This description is consistent with a former parking lot in this are prior to the



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construction of the New River Road, and may have been used by USEPA to define the western limits of coal-tar.

The description of the site outlined above was based upon the information available at the time the site was scored by USEPA for the NPL listing. The description was subject to change based upon any additional information that might be gathered on the sources and extent of contamination.

A review of the USEPA Hazard Ranking System (HRS) documentation indicates that USEPA relied heavily on the GeoSyntec RSI report for the ranking and addition of the QRC site on the NPL List, as well as establishing the limits of potential impacts from sources associated with the former QRC operations.

The GeoSyntec RSI report initially outlined the description of the QRC site as described above. However, upon review, USEPA requested that the aerial extent of the site be expanded to the area immediately west of the New River Road in order to encompass Block 93, Lot 3. This lot is immediately adjacent to the subject property. This revised aerial extent was reflected in both the Proposed Rule and the HRS Document.

During the time between the Proposed Rule and the Final Rule, neither USEPA nor Honeywell are known to have conducted any additional investigation concerning the QRC site or related contamination.

On April 6, 2001, less than a month after the close of the public comments to the Proposed Rule, USEPA wrote to the Edgewater Borough of Land Use Administrator (EBLUA) affirming that the subject property was not part of the proposed NPL site but was located on the west side of the River Road opposite the Site (referencing the QRC site). The correspondence also indicated that USEPA intended to perform additional sampling on the properties adjacent to the QRC site, including the subject property, but there was no problem with the EBLUA approving the pending land use development plans submitted by Three Y.

Three Y had entered into a long-term lease agreement with Hudson View Properties, LLC for the proposed development of a hotel on the subject property. Prior to construction, Three Y also intended to perform sampling on the subject property in accordance with the USEPA preferences outlined in the April 6, 2001 correspondence.

Following the lease agreement, Three Y sought to obtain building permits for the proposed hotel project from the EBLUA. However, by a letter dated August 26, 2002, USEPA informed the EBLUA that USEPA considers Block 93, Lots 1, 2 & 3 to be part of the QRC Superfund site and instructed the EBLUA to withhold approval of all necessary permits needed for Three Y's redevelopment project.



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On September 5, 2002, the USEPA published its Final Rule adding the QRC site to the NPL, with the following description of the QRC site:

The Quanta Resources site is located along the Hudson River in a mixed commercial and residential area in Edgewater, Bergen County, New Jersey. The facility property is bordered to the north by the former Celotex Industrial Park, to the south by the former Spencer-Kellogg Industrial Park, to the west by Old River Road, and to the east by the Hudson River.

Based upon the information available, USEPA's inclusion of the subject property within the limits of the QRC site reflects a conservative approach. However, USEPA has been seeking and has recently supervised further investigation within the subject property and other areas in order to more accurately determine potential impacts from sources associated with QRC operations.

In light of the above events, and prior to any additional investigation under USEPA's oversight, Three Y has voluntarily undertaken the soil and ground-water investigation at the subject property in order to complete the pending investigation. During this investigation process, Three Y has sought and received comments and concurrence on the investigation strategy from Honeywell, the PRP for the QRC site and their designated consultant Parsons Corporation (Parsons).

Three Y wishes to adequately investigate and/or remediate the subject property to applicable regulatory standards in order to proceed with the proposed redevelopment, as well as seek a delisting of the subject property from the NPL and removal from the area considered as QRC Superfund site.

#### 3.0 REMEDIAL INVESTIGATION REPORT

#### 3.1 PHYSICAL SETTING

### 3.1.1 Physical Conditions of the Site and Surroundings

The Three Y, LLC development site (subject property) is located in Bergen County at 163 Old River Road, Edgewater, New Jersey. The location of the subject property is shown on Figure 1. The subject property is identified as Block 93, Lots 1 & 2 on the November 1959 Tax Map of the Borough of Edgewater.

The subject property is bound to the east by Block 93, Lot 3 (with River Road immediately to the east of Lot 3); to the west by Old River Road; to the north by Gorge Road; and to the south by a privately owned property.

The area to the east of the subject property on the east side of River Road is the main QRC Superfund site. At this time, the subject property is also included within the limits of the QRC site, and represents its western limits. The properties immediately to the north of the QRC site.

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on the east side of River Road are the Former Celotex Industrial Park and Lusterlon Industrial Park sites.

#### 3.1.2 Geology and Soil

The subject property is located within the Newark Basin of the Piedmont Physiographic Providence of New Jersey, and is located west of and in close proximity to the Hudson River.

The area is underlain by approximately 35 to 55 feet of unconsolidated materials overlying bedrock. Soil borings completed at the property indicate that the unconsolidated materials are composed of up to nine (9) feet of man-emplaced fill overlying the natural, in-place sediments.

The natural sediments consist mainly of a layer of silty clay and clayey silt up to 30 feet thick. Thinner layers of sand are found above and below the silty clay/clayey silt layer.

The bedrock in this area appears to be the Upper Triassic-age Stockton Formation, which consists of sandstone conglomerate and siltstone. The Palisades are located to the west of the subject property, and consist of intrusive bodies such as diabase dikes and sills. The ground elevation in the area of the property is approximately 10-15 feet above mean sea level (MSL).

## 3.1.3 Hydrogeology

Ground water is present at depths ranging from three (3) to eight (8) feet below grade. Ground-water flow in this area is from west to east, toward the Hudson River. The fill material and sand layers are of relatively high permeability and represent the major ground-water flow zones. The silty clay/clayey silt is a low-permeability zone, and probably acts as a semi-confining layer between the overlying and underlying materials.

The Hudson River (located about 3,000 feet to the east of the property) is tidally influenced, with water-levels fluctuating more than 6 feet during a tidal cycle. Tidal cycles in the Hudson River influence ground-water levels immediately adjacent to the River, but it is anticipated that the tidal fluctuations do not significantly affect the ground-water levels beneath the 163 Old River Road property.

## 3.1.4 Topography

According to the United States Geological Survey (USGS) 7.5-minute Topographic Map of the Central Park, New York – New Jersey Quadrangle, the site is located approximately 10 feet above mean sea level (MSL). The topography of the site and the adjoining properties is relatively flat, but a steep slope of exposed bedrock is present several hundred feet to the west of the site.



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#### 3.1.5 Surface-Water Bodies

The nearest major surface-water body is the Hudson River, which is located approximately 3,000 feet to the east. No other water body is located downgradient of the site.

## 3.1.6 USGS 7.5 Minute Topographic Map

A copy of the USGS topo map, showing the site location, is included as Figure 1.

## 3.1.7 Land Use within 1,000 Foot Radius

Surrounding properties are a mixture of residential and commercial uses.

#### 3.2 TECHNICAL OVERVIEW

## 3.2.1 Reliability of Analytical Data

In accordance with N.J.A.C 7:26E-3.13(b)3.i, a reliable laboratory analytical data was generated following the requirements of N.J.A.C. 7:26E-2, Quality Assurance for Sampling and Laboratory Analysis for the samples collected. Samples were collected following the NJDEP's May 1992 Field Sampling Procedures Manual (FSPM) and the procedures outlined in EWMA's October 27, 2004 RIW prepared for the subject property.

The laboratory analytical data for the samples are deemed reliable since sample holding times and method detection limits were not exceeded. In addition, Field and Trip Blank samples were generated for quality control purposes. The samples were submitted to Integrated Analytical Laboratories, LLC (IAL), (NJDEP Certified Lab #14751).

## 3.2.2 Site Contamination Summary

BNAs, metals (arsenic, beryllium, and lead), and VOCs have been detected in soils at concentrations exceeding one or more of the NJDEP Soil Cleanup Criteria (SCC). In ground water, BNAs (benzo[a]pyrene), metals (aluminum, iron, manganese, and sodium), VOCs (benzene), and ammonia were detected at concentrations exceeding the NJDEP Ground Water Quality Standards.

## 3.2.3 Significant Events or Seasonal Variation

No significant events or seasonal variations were noted.

## 3.2.4 Summary of Treatability, Bench Scale or Pilot Studies

No treatability or pilot studies were performed.



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## 3.2.5 Summary of Data for Permits

Monitoring well permits are included in Appendix 3.

## 3.2.6 Summary of Ecological Assessments Conducted

An ecological assessment was not conducted.

## 3.3 FINDINGS FOR RI ACTIVITIES COMPLETED IN FEBRUARY AND MARCH, 2005

#### 3.3.1 Soil Borings and Monitoring-Well Installation

#### 3.3.1.1 Soil Borings

Five (5) soil borings (designated 3Y-1 through 3Y-5) were completed at the site between February 28 and March 8, 2005. Three (3) soil borings were completed along the eastern edge of the property, one (1) soil boring was completed within the northwest corner of the property, and one (1) boring was completed in the southwestern area of the property (Figure 2).

Soil borings were completed by Summit Drilling of Bedminster, New Jersey (a New Jersey licensed driller) using a hollow-stem auger rig. Completion of the soil borings was supervised by an EWMA geologist. At each boring, split-spoon samples were collected from the ground surface down to bedrock or split-spoon refusal. Split-spoon samples were collected continuously at Borings 3Y-1, 3Y-2, 3Y-3, and 3Y-4. However, based on the field observations in the previous soil borings and adverse weather conditions, split-spoon samples were collected every five (5) feet in the 20 to 35 foot depth interval in 3Y-5, and continuously throughout the rest of the boring.

The borings were completed at depths ranging from 36 feet below grade (ft bg) at Boring 3Y-3, to 57 ft bg at Boring 3Y-4.

Split-spoon soil samples were examined and described in the field, with special attention being paid to the presence/absence of visible traces of non-aqueous phase liquid (NAPL). All samples were screened for volatile organic compounds using a photo-ionization detector (PID). Several samples (including all suspicious samples) were also tested for the presence of NAPL using a Sudan IV "Oil-in-Soil" field test kit. Information on the Sudan IV test kit is included as Appendix 1.

In general, material encountered at all five (5) borings was similar, with four (4) to nine (9) feet of fill material, overlying natural, in-place sediments. The fill is typically dark gray to black, and is composed of sand and silt, with varying amounts of coal dust, coal fragments, cinders, and



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occasional construction debris. A layer of asphalt was also encountered in two borings (3Y-2 and 3Y-3) at a depth of between four (4) and five (5) ft bg.

The fill material did not exhibit any unusual staining or odors, elevated PID readings, or noticeable sheens. No visual evidence of NAPL was present, and all of the field tests, including Sudan IV screening tests, were negative for NAPL.

Natural, in-place sediments are present below the fill material. The uppermost natural soils are typically reddish-brown fine to medium sand. The sand extends down to depths ranging from 14 to 23 ft bg. Below the sand (or directly below the fill material in places where the sand is absent), a dense, silty clay to clayey silt layer is present; extending to depths ranging from 29 to 54 ft bg. The color of the silt and clay varies from brown to gray, and it often has a pinkish tinge. Sand laminae are also common within the silt and clay. In Borings 3Y-3 and 3Y-5, the natural soils encountered immediately beneath the fill material (at a depth of approximately nine (9) ft bg) contained abundant roots. This root zone presumably marks the former ground surface, and confirms that the overlying materials are man-emplaced fill.

A layer of fine to coarse sand, ranging from 2.5 to 12 feet thick, was present beneath the silt and clay. Auger/split-spoon refusal (presumed to be bedrock) was encountered at depths ranging from 36 ft bg (at Boring 3Y-3) to 57 ft bg (at Boring 3Y-4).

Ground water was encountered at depths of about six (6) to eight (8) ft bg.

There was no evidence of staining or sheens in the natural materials underlying the fill. No visual evidence of NAPL was present, and all field tests conducted were negative for NAPL.

Soil boring logs are included in Appendix 2.

Selected soil samples were submitted for laboratory analysis for Target Compound List/Target Analyte List compounds, plus 30 peaks (TCL/TAL + 30) and ammonia. EWMA collected at least four (4) soil samples from each boring location.

As outlined in the RIW, EWMA proposed to collect one sample from 0" to 6" (and 18" to 24" for volatile organics (VO+10) analysis), one sample from 6" above the ground-water table, one sample from 6" above the confining clay and silt layer, and one sample from 6" above the bedrock surface. However, because of incomplete sample recovery in the split spoons, some of the samples had to be collected from alternate sample depths.

The project RIW also specified an optional fifth (5th) soil sample from each boring, to be collected from any depth where field screening methods (i.e. PID reading, visual observation, or field testing) indicated the potential presence of contamination. The only sample with suspected contamination was collected from Boring 3Y-3 at a depth of 2 to 2.5 feet bg. Materials



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encountered at this depth were dark gray to black silt, with a shiny appearance. However, despite the shiny appearance, the sample did not exhibit any trace of NAPL under close examination.

Sample 3Y-2E was submitted for all parameters except VOCs (because the 3Y-2A sample analyzed for VOCs was collected from the same depth).

The same black silt was encountered in several other borings. At other locations, the silt also contained many coal fragments (not coal tar), indicating that the dark gray to black silt is composed mainly of coal dust and crushed coal.

Three (3) additional soil samples were also collected at random depth intervals for Quality Assurance/ Quality Control (QA/QC).

A summary of the samples submitted for laboratory analysis, including their depths and reason for collection, is provided in **Table 1**.

#### 3.3.1.2 Monitoring-Well Installation

One monitoring well, designated 3Y-MW1, was installed on March 3, 2005. Monitoring Well 3Y-MW1 was installed along the eastern edge of the property, about 10 feet from Boring 3Y-2. 3Y-MW1 was completed at a depth of 22 ft bg, with 10 feet of well screen. The bottom of the well was set on top of the extensive silt and clay layer. As completed, the top of the screened interval is about six (6) feet below the water table.

The monitoring well log is included in Appendix 2. The well permit and as-built certification are provided in Appendix 3.

## 3.3.2 Laboratory Analyses of Soil Samples

Soil samples were submitted for laboratory analyses for Target Compounds List/Target Analyte List compounds (TCL/TAL + 30) and ammonia. The analyses included in the TCL/TAL list are: volatile organic compounds (VOCs); base-neutral/acid extractable compounds (BNAs); metals; PCBs; pesticides; and herbicides.

The results of the soil sample analyses are summarized in Table 2. The detected concentrations are compared to the following NJDEP soil cleanup criteria: the Impact to Ground Water Soil Cleanup Criteria (IGWSCC), the Residential Direct Contact Soil Cleanup Criteria (RDCSCC) and the Non-Residential Direct Contact Soil Cleanup Criteria (NRDCSCC). The complete laboratory reports (Lab Case # E0501940) are provided in Appendix 4.

BNAs were detected in samples collected from all five (5) borings. BNAs (including anthracene, fluoranthrene, pyrene, chrysene, benzo[a]pyrene, benzo[b]fluoranthene, and benzo[a]anthracene)



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were detected at concentrations that exceed one or more SCC. Individual BNAs were detected at concentrations of up to 277 parts per million (ppm).

BNAs were detected in every sample collected from the fill material at the site, and at least one sample of the fill in every boring exceeded one or more SCC for BNAs.

Metals (beryllium and arsenic) exceeded the SCC in a few samples collected from Borings 3Y-1, 3Y-2, and 3Y-3.

Benzene also exceeded the SCC in two samples, collected from 3Y-1 and 3Y-3. However, the benzene concentrations detected (1.55 part per million (ppm) at Boring 3Y-1 and 1.11 ppm at Boring 3Y-3) only slightly exceed the IGWSCC of 1 ppm.

A summary showing the sample depths and material types where one or more compounds exceeded the SCC is presented as **Table 3**.

## 3.3.3 Monitoring-Well Sampling

A ground-water sample was collected from Monitoring Well 3Y-MW1 on March 21, 2005. The sample was collected using the low-flow purge method. The purge log is included in **Appendix** 5.

The collected sample was submitted for laboratory analysis for TCL/TAL + 30 and ammonia. Results of the ground-water sample analysis are summarized in **Table 4**. The complete laboratory report (Lab Case # E0502623) is provided in **Appendix 6**.

Benzene and benzo[a]pyrene were each detected at concentrations that only slightly exceed the NJDEP Ground Water Quality Standards (GWQS). Benzene was detected at a concentration of 1.6 ug/l (micrograms/liter) compared to the GWQS of 1 ug/l, and benzo[a]pyrene was detected at a concentration of 0.256 ug/l, compared to the GWQS of 0.2 ug/l.

Ammonia was detected at a concentration of 3,000 ug/l, equal to the GWQS of 3,000 ug/l. In addition, four metals (aluminum, iron, manganese, and sodium) were detected at concentrations exceeding their GWQS.

## 3.4 FINDINGS FOR RI ACTIVITIES COMPLETED IN AUGUST, 2005

## 3.4.1 Soil Borings and Monitoring-Well Installation

## 3.4.1.1 Soil Borings

Thirteen (13) soil borings (designated 3Y-6 through 3Y-18) were completed at the site on August 4 and 5, 2005. Boring locations are shown on Figure 2. These borings were installed for two

purposes: 1) to delineate benzene that was detected in soil samples collected during the February and March, 2005 investigation; and 2) to determine if ammonia (detected at high concentrations in a ground-water sample collected from Monitoring Well 3Y-MW1) was also present in soil at the site.

Soil borings were completed by Summit Drilling of Bedminster, New Jersey (a New Jersey licensed driller) using a hollow-stem auger rig. Completion of the soil borings was supervised by an EWMA geologist. Split-spoon soil samples were examined and described in the field. Soil boring logs are included in Appendix 2. Borings were completed at depths ranging from four (4) to eight (8) ft bg. The materials encountered in these borings were mostly fill material; this is consistent with materials encountered at similar depths in previous borings.

Borings 3Y-6 through 3Y-9 were completed in the area surrounding Boring 3Y-1. Soil samples were collected from these borings at the 6.5 to 7 ft bg depth interval (the depth interval where benzene was detected in 3Y-1). Borings 3Y-10 through 3Y-13 were completed in the area surrounding 3Y-3. Soil samples from these borings were collected from the 2 to 2.5 ft bg depth interval (the depth interval where benzene was detected in 3Y-3). Soil samples collected from these borings were submitted for laboratory analysis for VO + 10 and ammonia.

Boring 3Y-14 was completed near the northern edge of the property, close to Gorge Road, in an area where ammonia cylinders were reported to have been stored in the past. Split-spoon samples were collected continuously from the ground surface to a depth of 20 ft bg. Soil samples collected from the ground surface (0 to 0.5 ft bg), just above the water table (4 to 4.5 ft bg), and just above the silt and clay layer (17 to 17.5 ft bg) were submitted for laboratory analysis for ammonia.

In addition, the soil sample collected from the 4 to 4.5 ft bg depth interval in 3Y-14 exhibited an oily staining, resembling fuel oil. This sample was also analyzed for VO +10 and Base/Neutral compounds, plus 15 peaks (BN + 15). Based on the presence of the oily staining above the water table in 3Y-14, four additional soil borings (designated 3Y-15, 3Y-16, 3Y-17, and 3Y-18) were completed in the area surrounding 3Y-14. Of these additional borings, only 3Y-15 exhibited slight staining above the water table. Soil samples collected from immediately above the water table in theses borings were submitted for laboratory analysis for VO+10.

A summary of the samples submitted for laboratory analysis, including their depths and reason for collection, is provided in Table 1.

## 3.4.1.2 Monitoring-Well Installation

One monitoring well, designated 3Y-MW2, was installed on August 5, 2005. Monitoring Well 3Y-MW2 was installed along the northern edge of the property (Figure 2), and completed at a depth of 20 ft bg with 17 feet of well screen. The well is screened from the top of the silt and clay layer to just above the water table.

The monitoring well log is included in Appendix 2. The well permit and as-built certification are provided in Appendix 3.

## 3.4.2 Laboratory Analyses of Soil Samples

Soil samples were submitted for laboratory analyses for VO +10 and ammonia. Soil sample 3Y-14 (4 - 4.5 ft) exhibited dark, oil-like staining, and was also submitted for analysis for BNs.

The results of the soil sample analyses are summarized in Table 2, and compared to the applicable NJDEP soil cleanup criteria. The complete laboratory report is provided in Appendix 7.

Soil samples 3Y-6 (6.5-7ft), 3Y-7 (6.5-7ft), 3Y-8 (6.5-7ft), and 3Y-9 (6.5-7ft) were collected primarily to delineate benzene detected in Boring 3Y-1. Sample 3Y-7 (6.5-7ft) (collected approximately 15 feet to the west of Boring 3Y-1) exhibited 5.81 ppm of benzene; this concentration exceeds the IGWSCC of 1 ppm, and the RDCSCC of 3 ppm. None of the other delineation samples collected around 3Y-1 exceeded any of the SCC.

The 3Y-1 delineation samples were also analyzed for ammonia. Ammonia concentrations ranged from non-detect at 3Y-8 (6.5-7ft) to 1.5 ppm at 3Y-6 (6.5-7ft).

Soil samples 3Y-10 (2-2.5 ft), 3Y-11 (2-2.5 ft), 3Y-12 (2-2.5 ft), and 3Y-13 (2-2.5 ft) were collected primarily to delineate benzene detected in Boring 3Y-3. Samples 3Y-11 (2-2.5 ft), 3Y-12 (2-2.5 ft), and 3Y-13 (2-2.5 ft) exhibited benzene concentrations ranging from 35.4 ppm to 5.71 ppm, and all exceeded the IGWSCC (1 ppm), the RDCSCC (3 ppm), or the NRDCSCC (13 ppm) for benzene. Only sample 3Y-10 (2-2.5 ft) (collected from a location approximately 28 feet east of Boring 3Y-3) did not exceed any SCC.

The 3Y-3 delineation samples were also analyzed for ammonia. Ammonia concentrations ranged from non-detect (3Y-10 (2-2.5 ft) and 3Y-12 (2-2.5 ft)) to 0.568 ppm (3Y-13 (2-2.5 ft)). NJDEP has not established an SCC for ammonia.

Boring 3Y-14 and the surrounding borings (3Y-15 through 3Y-18) were completed to investigate a former ammonia storage area. Ammonia concentrations in soil samples ranged from non-detect (in samples collected from Borings 3Y-14 and 3Y-15), to 0.536 ppm in sample 3Y-18 (5-5.5 ft).

Soil samples collected from Borings 3Y-14 through 3Y-18 were also analyzed for VOCs, based on oily-stained soil encountered in Boring 3Y-14. The only detected VOC was benzene, which was detected in sample 3Y-14 (4-4.5ft) (collected from the stained interval) at a concentration of 0.336 ppm, well below the most-stringent SCC. No VOCs were detected in samples collected from the remaining borings.

Soil sample 3Y-14 (4-4.5ft) was also analyzed for BNs. Detected BNs which exceeded the RDCSCC and the NRDCSCC include: benzo[a]anthracene, benzo[b]fluouranthene, indeno[1,2,3-cd]pyrene, and dibenz[a,h]anthracene. Other detected BNs (which did not exceed the SCC) include naphthalene, acenapthene, fluorene, phenanthrene, fluoranthene, and pyrene.

A summary showing the sample depths and material types where one or more compounds exceeded the SCC is presented as **Table 3**.

#### 3.4.3 Monitoring-Well Sampling

Ground-water samples were collected from Monitoring Wells 3Y-MW1 and 3Y-MW2 on August 24, 2005. Purge logs are included in Appendix 5.

The collected samples were submitted for laboratory analysis for VOCs + 10 and ammonia. Results of the ground-water sample analysis are summarized in **Table 4**. The complete laboratory report (Lab Case # E0508875) is provided in **Appendix 8**.

Benzene and ammonia were the only compounds detected at concentrations exceeding the NJDEP GWQS. Benzene was detected in 3Y-MW1 at a concentration of 1.31 ug/l, compared to the GWQS of 1 ug/l. Ammonia was detected in 3Y-MW1 and 3Y-MW2 at concentrations of 3,160 ug/l and 6,340 ug/l, respectively, compared to the GWQS of 3,000 ug/l.

## 3.5 FINDINGS FOR RI ACTIVITIES COMPLETED BY CH2M HILL IN 2005

In August-September, 2005, CH2M Hill completed two (2) soil borings (SB-111A and SB-13) and two (2) monitoring wells (MW-111A and MW-111B) on the 3Y property, as part of the additional on-going investigations for the Quanta Superfund site undertaken by the primary responsible party Honeywell under USEPA's oversight. The results of the soil investigation on the Three Y property were provided to EWMA by CH2M Hill per Three Y's request. These results were also incorporated by CH2M Hill in their "Draft Preliminary Site Characterization Report – Operable Unit 1" dated February 2006 and submitted to USEPA for the Quanta site. A copy of this report was made available to EWMA by Three Y for the purpose of this report.

The referenced CH2M Hill report indicates that Block 93, Lot 3 (which is adjacent to and immediately west of the Three Y property) is the only lot west of River Road believed to have been part of the former Quanta Resources operations. The report indicates that the portion of the Three Y property, consisting of Block 93, Lot 2 is a former railroad right of way that is currently partially paved, with a solid waste dumpster, old vehicles, portions of a chain-link fence, and remnants of railroad track present on this lot. On Lot 1, a partially paved parking area and a 2-story restaurant are located in the southwest corner. The report indicates that this currently existing building was reportedly used as a quality control laboratory by Allied Signal until 1974. Afterwards, the building remained vacant for approximately 10 years, and since then has been

used for miscellaneous commercial, office and storage purposes, and converted to a restaurant in the early 1990s.

The following provides a brief summary of the soil and ground water sampling by CH2M Hill on the subject property and their results.

#### 3.5.1 Soil Borings

Two (2) soil borings (SB-111A and SB-13) were completed by CH2M Hill in August 2005 within the limits of the Three Y property. SB-13 was completed along the southeast corner of the subject property. SB-111A was completed along the western central portion of the property and converted to a monitoring well MW-111A. The locations of SB-13 and MW-111A are also shown on Figure 2.

The report indicated the presence of BNs (i.e. benzo(a)pyrene and naphthalene) above the NJDEP SCCs at the subject property. The concentrations detected are consistent with those detected at the site during EWMA's investigation and are typical of the historic fill, as concluded in Section 3.7 of this report.

The results of VO analysis indicate the detection of benzene at extremely low levels (0.008 and 0.0008 ppm), well below the NJDEP SCC.

The results of metals analysis indicate the presence of arsenic in the unsaturated soils (0-4 ft bg) at concentration of 913 ppm at SB-13, above the NJDEP RDCSCC of 20 ppm. CH2M Hill's report indicates that arsenic was detected in 95% of all soil samples collected as part of the RI for the Quanta site, and with the exception of the 913 ppm of arsenic detected at SB-13, the distribution of arsenic is consistent with the historic data for the Quanta site and surrounding properties. Based on the results of arsenic in the saturated soils at this location (10.4 ppm) and other locations completed by EWMA and CH2M Hill in this area, this exceedance appears to be isolated and consistent with the historic fill concentrations in this area.

The results of Ammonia analysis indicate that Ammonia was not present at the site soils above the method detection limits.

During the completion of the Soil Boring SB-13, (Figure 2) CH2M Hill reported a "tar-like product with a petroleum odor" at a depth of 3-3.5 ft bg (the boring log for SB-13 is included in Appendix 2). EWMA completed additional borings in this area in November 2005, as further discussed in Section 3.6, partly in order to address this observation.

## 3.5.2 Monitoring-Well Sampling

Two (2) monitoring wells (MW-111A and MW-11B) were completed by CH2M Hill in August 2005 along the western central portion of the subject property. MW-111A was completed to a

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depth of 9 feet with 7 feet of well screen from the bottom of the well, whereas MW-111B was completed to a depth of 13 feet with 10 feet of well screen from the bottom of the well. Both wells are located in close proximately to each other, as shown on EWMA's Figure 2.

The results of the ground water sampling at the property by CH2M Hill indicates that only arsenic was detected above the NJDEP GWQS at both MW-111A and MW-111B. The arsenic concentrations detected were 38,600 ppb and 62,100 ppb, respectively, and are reported to be the highest concentrations detected by CH2M Hill as part of this investigation related to the Quanta site. However, soil samples collected by CH2M Hill at SB-111A, which is the same location as MW-111A indicate arsenic in soils at 17.4 ppm and 6.1 ppb in the unsaturated (0 to 4 ft bg) and saturated (> 4 ft bg) soils, respectively, below the NJDEP RDCSCC of 20 ppm. In addition, based on EWMA's investigation at the subject property, no significant arsenic has been detected in the site soils, and arsenic concentration of only 5.86 ppb at MW-1 located along the eastern central portion of the property, below the NJDEP GWQS. Therefore, as concluded in CH2M Hill's report, the presence of arsenic in the ground water at the subject property is in part a result of the presence of urban fill across Quanta site and properties to its north, south, and west. In addition, the observed reducing conditions in the water samples are likely contributing to the ongoing dissolution of arsenic from soil to ground water in this area.

In addition to the above results, CH2M Hill reported the evidence of Non-Aqueous Phase Liquid (NAPL) and tars in soil borings and monitoring wells installed as part of the Quanta investigations, including the subject property. CH2M Hill did not report any NAPL or tars in MW-111A and MW-111B. At soil boring SB-13, completed in the southeastern corner of the property, "tar-like product with a petroleum odor" at a depth of 3-3.5 ft bg was reported. This area was further investigated by EWMA, and no NAPL or tar was detected, except for asphalt layer, as further discussed in Section 3.6.

## 3.6 FINDINGS FOR RI ACTIVITIES COMPLETED IN NOVEMBER, 2005

## 3.6.1 Soil Borings

## 3.6.1.1 Soil Borings

Nine (9) soil borings (designated 3Y-19 through 3Y-27) were completed at the site on November 21, 2005 (Figure 2). The main reason for installing these borings was to delineate benzene that was detected in soil samples collected during previous investigations. However, some of these borings were completed to also investigate the occurrence of "tar-like product" reported in a boring completed at the site by CH2M Hill, as previously discussed in Section 3.5.

Soil Boring SB-13, completed by CH2M Hill (Figure 2), encountered "tar-like product with a petroleum odor" at a depth of 3-3.5 ft bg (the boring log for SB-13 is included in Appendix 2). CH2M Hill's SB-13 is located near the southeast corner of the subject property, and EWMA



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Borings 3Y-19, 3Y-20, and 3Y-26 (Figure 2) were installed, in part, to investigate the reported "tar-like product".

Soil borings as part of EWMA's investigation were completed by Talon Drilling of Trenton, New Jersey (a New Jersey licensed driller) using a truck-mounted Geoprobe and four-foot macrocore samplers. Completion of the soil borings was supervised by an EWMA geologist. Macrocore samples were examined and described in the field, and screened for VOCs with a PID. Soil boring logs are included in **Appendix 2**.

Soil borings were completed at depths of eight (8) ft bg. At each boring location, a soil sample was collected from the depth interval that exhibited the highest PID reading and submitted for laboratory analysis for VOCs+10.

Materials encountered in Borings 3Y-19 through 3Y-27 were similar to those encountered in previous EWMA borings. The materials consisted of up to eight (8) feet of fill material overlying in-place silt and fine sand. A layer of asphalt was encountered in the three (3) to five (5) ft bg depth range in some borings, which likely resulted in a "tar-like product with a petroleum odor" reported by CH2M Hill at a depth of 3-3.5 ft bg. There was no evidence of DNAPL in any of the borings. A faint, discontinuous sheen was observed on saturated soil encountered in Boring 3Y-19.

A summary of the samples submitted for laboratory analysis, including their depths and reason for collection, is provided in Table 1.

## 3.6.1.2 Laboratory Analyses of Soil Samples

Soil samples were submitted for laboratory analyses for VO +10. The results of the soil sample analyses are summarized in **Table 2**. The detected concentrations are compared to the following NJDEP soil cleanup criteria: the Impact to Ground Water Soil Cleanup Criteria (IGWSCC), the Residential Direct Contact Soil Cleanup Criteria (RDCSCC) and the Non-Residential Direct Contact Soil Cleanup Criteria (NRDCSCC). The complete laboratory reports (Lab Case # E0512580) are provided in **Appendix 9**.

Soil samples collected during the November 2005 sampling round were collected to delineate the extent of benzene in soil. Benzene was detected in only two soil samples, 3Y-20 (5.5-6ft) and 3Y-25 (2-2.5ft). Sample 3Y-20 (5.5-6ft) exhibited 1.06 ppm of benzene (slightly exceeding the IGWSCC of 1 ppm). Sample 3Y-25 (2-2.5ft) exhibited 31.3 ppm of benzene; this concentration exceeds the IGWSCC (1 ppm), the RDCSCC (3 ppm), and the NRDCSCC (13 ppm). No other VOCs were detected at concentrations that exceeded any of the SCC.



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## 3.7 CONCLUSIONS AND RECOMMENDATIONS

#### 3.7.1 Soils

A total of twenty seven (27) soil borings have been completed by EWMA at the site. Five (5) borings were advanced to bedrock (which was encountered at depths of 36 to 57 ft bg). The remaining borings were completed at depths of 8 ft bg, or less. In addition, CH2M Hill completed two (2) soil borings at the property as part of the investigations related to the Quanta site under USEPA's oversight.

Boring logs show that four (4) to nine (9) feet of fill material overlies the natural soil (sand and silty clay/clayey silt). The fill material includes coal fragments and coal dust, cinders, and construction debris. A layer of asphalt several inches thick is present in the subsurface in the southern portion of Lot 2. The asphalt layer, which is encountered at depths of three (3) to six (6) ft bg, is believed to be part of a buried parking lot or paved area.

There was no trace of coal tar or DNAPL in any of EWMA's soil borings completed on the property. The only evidence of non-aqueous phase liquids was encountered in Boring 3Y-14, where soil on top of the water table displayed black, oil-like staining, along with a hydrocarbon sheen and odor. The presence of this staining at the top of the water table, combined with the other observations, indicates that the staining is an isolated petroleum-product staining, and not coal tar.

The composition of the fill materials encountered at the property is consistent with historic fill; much of the fill material was probably placed on site when the property was first developed in the 1890's. More recently, in 1996, additional fill was emplaced at the site by Bergen County, as part of the construction of the new River Road.

The highest concentrations of BNAs and metals are found in the fill material at the site (Tables 2 and 3). With the exception of benzene and ammonia, all the compounds detected in soil are typical of historic fill materials, and their concentrations fall within the ranges reported for historic fill in New Jersey (as provided in the NJDEP "Technical Requirements for Site Remediation" (TRSR), NJAC 7:26E, Appendix D). A comparison of the concentrations detected on the subject property with the historic-fill ranges is provided in Table 5.

BNA concentrations in the natural soils are much lower than in the overlying fill, and concentrations decrease with increasing depth (Table 2, Table 3). This suggests that the historic

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fill is the source of the BNAs detected in the natural soils, and that the low concentrations of BNAs in the natural soils are the result of downward migration of BNAs from the overlying fill material.

Benzene concentrations in soil range from non-detect to 35.4 ppm. Benzene concentrations that exceed the SCC are confined to two areas in the eastern half of the site (Figure 3). The source of the benzene is not known for sure. However, a Parsons map provided to EWMA by CH2M Hill (included as Appendix 10) shows site conditions at the Quanta site when it was still in operation. The map shows two gasoline underground storage tanks (USTs) located on the western edge of the Quanta site, adjacent to the Three Y property. These USTs may be the source of the detected benzene.

Ammonia concentrations in soils ranged from non-detect to 1.5 ppm. The NJDEP has not established a SCC for ammonia, but based on the low concentrations present, there does not appear to be any significant impact to soils. The maximum ammonia concentration detected in soil (1.5 ppm) is lower than the GWQS for ammonia (3 ppm), so the the ammonia present in soil is unlikely to significantly impact ground water.

#### 3.7.2 Ground Water

Ground-water samples collected from 3Y-MW1 and 3Y-MW2 have exhibited benzene, ammonia, benzo[a]pyrene, and several metals at concentrations that exceed the GWQS.

Benzene was detected only at 3Y-MW1, at a maximum concentration of 1.6 ug/l; this is only slightly above the GWQS of 1 ug/l. The low benzene concentration indicates that the benzene detected in soil at the site is not significantly impacting ground water, and that there has not been significant off-site migration.

Ammonia concentrations ranged from 3,160 ug/l at 3Y-MW1 to 6,340 ug/l at 3Y-MW2, compared to the GWQS of 3,000 ug/l. Leaks and spills from the former ammonia storage areas (Figure 3) are the probable source for the ammonia. However, ammonia concentrations in soil are very low, so it appears that soils are not acting as an ongoing source for ammonia in ground water. Given that the ammonia concentration at the downgradient edge of the property (3Y-MW1) only slightly exceeds the GWQS, it is unlikely that there has been any significant off-site migration of ammonia.

The concentration of benzo[a]pyrene detected was 0.256 ug/l, just slightly above the 0.2 ug/l GWQS. Benzo[a]pyrene is virtually immobile in ground water. For example, under identical conditions, the rate of benzo[a]pyrene migration in ground water is over 2,000 times slower than the migration rate of benzene (Table 6). The source of the benzo[a]pyrene detected in ground water must therefore be very close to 3Y-MW1; the most likely source is the overlying fill material.

Nells don't Correspond to high Benzene arasin



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Given its low concentration and limited mobility, further investigation into the benzo[a]pyrene in ground water is not necessary.

Four (4) metals (aluminum, iron, manganese, and sodium) were also detected at 3Y-MW1 at concentrations exceeding the GWQS. These metals are major components of common naturally occurring minerals, so the presence of these metals is probable the result of small amount of suspended sediment in the ground-water sample.

Arsenic was detected at concentrations of 38,600 ppb and 62,100 ppb at two (2) monitoring wells installed and sampled by CH2M Hill along the western central portion of the site. However, since no significant source of arsenic in soils has been detected in borings completed by CH2M Hill or EWMA, these results are partly attributable to the presence of urban fill across Quanta site and properties to its north, south, and west. In addition, the observed reducing conditions in the water samples are likely contributing to the on-going dissolution of arsenic from soil to see the ground water in this area.

## 3.7.3 Impact of QRC Operations on Block 93, Lots 1 & 2

This remedial investigation was conducted, in large part, to determine whether coal-tar products from QRC operations had impacted the subject property (Block 93, Lots 1 and 2), and whether the property should be included as part of the QRC Superfund site. The investigation performed at the property included the completion and sampling of 27 soil borings and two (2) monitor wells.

EWMA's investigation did not find any evidence of coal tar or coal-tar impacts in soil or ground water at the subject property. (All the contaminants) detected in soil and ground water at the property appear to be derived from historic fill materials and past on-site industrial operations, and there is no evidence that QRC operations have significantly impacted the property. These results are additionally supported by the results of soil and ground water investigations conducted by CH2M Hill on the subject property as part of the Quanta site investigations under USEPA oversight.

Based on the results of investigations conducted to-date, the property at Block 93, Lots 1 and 2 should not be included in the QRC Superfund site.  $\sqrt{\ell^2 + 3 \ln 2} = \sqrt{\ell^2 + 3$ 

No!



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#### 4.0 REMEDIAL ACTION WORKPLAN

#### 4.1 Soil

Seven (7) BNAs and one (1) VOC (benzene) have been detected in soil at concentrations exceeding one or more of the SCC (Table 2). The detected BNAs are derived from the historic fill which covers the site, and the benzene is suspected to be related to a former UST system that was present in the western portion of the Quanta property, close to the Three Y site. Nearly all of the BNAs exceed the RDC and NRDC SCC, but are below the IGW SCC. The highest benzene concentrations detected exceed the RDC SCC, NRDC SCC, and IGW SCC. There have been no significant impacts to ground water from the soils at the property.

EWMA proposes to leave the historic fill and other contaminated soil in place, and to use engineering controls and a deed restriction to eliminate the risk of exposure to contaminated soils.

The engineering controls may consist of an impermeable cover (e.g., asphalt pavement) and proposed site development. The entire property will be paved or covered by the proposed development. The area covered by the proposed deed restriction consists of Block 93, Lots 1 & 2 (Figure 4).

#### 4.2 GROUND WATER

Ammonia and benzene have been detected in ground water at concentrations exceeding their GWQS. The highest benzene concentration detected (1.6 ug/l, detected in Monitoring Well 3Y-MW1) only slightly exceeds the GWQS of 1 ug/l. The highest ammonia concentrations detected have been 3,160 ug/l (in 3Y-MW1) and 6,000 ug/l (in 3Y-MW2), compared to the GWQS of 3,000 ug/l.

Given the low concentrations present and the absence of nearby receptors, both compounds are amenable to natural attenuation via a combination of biodegradation, adsorption, and dilution. Therefore, EWMA proposes the establishment of a Classification Exception Area (CEA) to address the minor ground-water contamination. The proposed CEA consists of Block 93, Lots 1 & 2 (Figure 4).

Although, arsenic has been detected well above the NJDEP GWQS by CH2M Hill at two (2) monitoring wells along the western central portion of the property, it's presence is attributable to the presence of urban fill in this and the surrounding areas, and results are consistent with other arsenic concentrations detected in the ground water in the surrounding properties.

No



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## 5.0 HAZSITE DATA

The HazSite Data package is included in Appendix 11. The appendix includes a hard copy of the electronic data deliverable and a 3.5 inch floppy disk containing the electronic data deliverable files.



TABLE 1

#### SUMMARY OF SOIL SAMPLES COLLECTED

# Three Y, LLC Properties 163 Old River Road, Edgewater, NJ

Boring/ Sample ID	Depth	Description/Rationale for Collection
3Y-1A	0-6" bg	surface soil
3Y-1A	2-2.5 ft bg	surface soil, for VOA's (no recovery of 1.5 -2 ft bg)
3Y-1B	6.5 - 7 ft bg	0-6" above GW
3Y-1C	22.5 - 23 ft bg	0-6" above confining layer
3Y-1D	56.5 - 57 ft bg	0-6" above bedrock
3Y-1R	18 - 18.5 ft bg	random sample
3Y-2A	0-6" bg	surface soil
3Y-2A	2-2.5 ft bg	surface soil, for VOA's (no recovery of 1.5 -2 ft bg)
3Y-2B	6 - 6.5 ft bg	0-6" above GW
3Y-2C	20 - 20.5 ft bg	0-6" above confining layer
3Y-2D	47.5 - 48 ft bg	0-6" above bedrock
3Y-2E	2-2.5 ft bg	black silt (coal dust) with shiny appearance
3Y-2R	36 - 36.5 ft bg	random sample
3Y-3A	0-6" bsg	surface soil
3Y-3A	2-2.5 ft bg	surface soil, for VOA's (no recovery of 1.5 -2 ft bg)
3Y-3B	6 - 6.5 ft bg	0-6" above GW
3Y-3C	17 - 17.5 ft bg	0-6" above confining layer
3Y-3D	34 - 34.5 ft bg	0-6" above bedrock
3Y-4A	0-6" bg	surface soil
3Y-4A	4 - 4.5 ft bg	surface soil, for VOA's (no recovery of 1.5 -2 ft bg)
3Y-4B	6 - 6.5 ft bg	0-6" above GW
3Y-4C	14 - 14.5 ft bg	0-6" above confining layer
3Y-4D	44 -44.5 ft bg	0-6" above bedrock
3Y-5A	0-6" bg	surface soil
3Y-5A	2-2.5 ft bg	surface soil, for VOA's (no recovery of 1.5 -2 ft bg)
3Y-5B	6 - 6.5 ft bg	0-6" above GW
3Y-5C	16 - 16.5 ft bg	0-6" above confining layer
3Y-5D	38 - 38.5 ft bg	0-6" above bedrock
3Y-5R	17 - 17.5 ft bg	random sample
3Y-6	6.5 - 7 ft bg	Tandom sample
3Y-7	6.5 - 7 ft bg	$\dashv$
3Y-8	6.5 - 7 ft bg	<del></del>
3Y-9	6.5 - 7 ft bg	<del> </del>
3Y-10	2-2.5 ft bg	benzene delineation
3Y-11	2-2.5 ft bg	<del>-</del>
3Y-12	2-2.5 ft bg	⊣
3Y-13	2-2.5 ft bg	=
3Y-14A	0-6" bg	
3Y-14B	4-4.5 ft bg	investigation for on-site source of ammonia
	,	investigation for on-site source of animonia
3Y-14C 3Y-15	17-17.5 ft bg 5-5.5 ft bg	
3Y-16	5-5.5 ft bg	┥ .
	5-5.5 ft bg	investigate suspected oil in 3Y-14
3Y-17	5-5.5 ft bg	
		benzene delineation; investigate report of product in CH2
3Y-18		
3Y-19	6-6.5 ft bg	
3Y-19 3Y-20	5.5-6 ft bg	Hill boring
3Y-19 3Y-20 3Y-21	5.5-6 ft bg 6-6.5 ft bg	
3Y-19 3Y-20 3Y-21 3Y-22	5.5-6 ft bg 6-6.5 ft bg 5-5.5 ft bg	
3Y-19 3Y-20 3Y-21 3Y-22 3Y-23	5.5-6 ft bg 6-6.5 ft bg 5-5.5 ft bg 6-6.5 ft bg	
3Y-19 3Y-20 3Y-21 3Y-22	5.5-6 ft bg 6-6.5 ft bg 5-5.5 ft bg	Hill boring

Table 2

#### Three Y, LLC Properties, 163 Old River Road Edgewater, NJ

Client ID:	NJDEP	NJDEP	NJDEP	T	3Y-1A	$\neg$	3Y-1B	$\overline{}$	3Y-1C		3Y-1	n		Y-1R	<del></del>	27.04						<del></del>						
Sample Depth (ft bg):	RDC	NRDC	IGW		/2-2.5 (VOs	)	6.5-7		22.5-23	1	56.5-			8-18.5		3Y-2A 2-2.5 (VOs)		3Y-2B	1	3Y-2C	1	3Y-2D		3Y-2E		Y-2R	3	SY-JA
Lab ID:	SCC	scc	scc	0:	2014-001	، ا	2014-002		2014-003	1	02111			014-004		2-2.5 (VUS) 940-005	1	6-6.5	1	20-20.5	1	47.5-48	-	2-2.5		6-36.5	0-0.5/2	2-2.5 (VOs)
Date Sampled:		1			3/4/05		3/4/05	1	3/4/05	1	3/7/0			14-004 14/05				940-006	°	1940-007	- 1 '	01997-001	0	1997-002		997-003	021	111-002
Matrix:		1	1	1	Soil	- 1	Soil	1	Soil	1	Soi			Soil	1	3/2/05 Soil		3/2/05 Soil	1	3/2/05	1	3/4/05	1	3/4/05	1	V4/05	3	3/7/05
VOCs (ppm)				Conc	Q MD	Conc		Conc	AL MDL	Conc		MDL	Conc	Q MDL	Conc		_		+	Soil		Soil	<del></del>	Soil	_	Soil		Soil
Dichlorodifluoromethane	(NA)	(NA)	(NA)	ND	0.54		1.56	ND	0.556		1	0.568	ND	0.787	ND	Q MDL 0.572	1 00:10	W INDE	Conc	Q MDL	Conc		Conc	Q MDL		Q MDL	Conc	Q MDL
Chloromethane	520	1000	10	ND	0.54		1.56	ND	0.556		╅	0.568	ND ND	0.787	ND	0.572	ND ND	0.577	ND	0.575	ND	0.439	<u> </u>	<del>                                     </del>	ND	0.578	ND	0.647
Vinyl chloride	2	7	10	ND	0.54	9 ND	1.56	ND	0.556		1 1	0.568	ND	0.787	ND	0.572	ND ND	0.577	ND	0.575	ND	0.439	<u> </u>	<del>    ~</del>	ND	0.578	ND	0.647
Bromomethane	79	1000	1	ND	0.54	9 ND	1.56	ND	0.556		++	0.568	ND	0.787	ND	0.572	ND ND	0.577	ND ND	0.575	ND	0.439	<u> </u>	<del>    -</del>	ND	0.578	ND	0.647
Chloroethane	(NA)	(NA)	(NA)	ND	0.54	9 ND	1.56	ND	0.556		1 1	0.568	ND	0.787	ND	0.572	ND ND	0.577	ND	0.575 0.575	ND	0.439	<u> </u>	11-	ND	0.578	ND	0.647
Trichlorofluoromethane	(NA)	(NA)	(NA)	ND	0.54	9 ND	1.56	ND	0.556	ND	11	0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND ND	0.439	<b>↓</b>	<del>   </del>	ND	0.578	ND	0.647
1,1-Dichloroethene	8	150	10	ND	0.54	9 ND	1.56	ND	0.556	ND	T	0.568	ND	0.787	ND	0.572	ND ND	0.577	ND	0.575	ND	0.439	<del>  ~</del>	<del>    ~</del>	ND	0.578	ND	0.647
Acetone	1000	1000	100	ND	1.10	ND ND	3.90	ND	1.11	ND	11	1.14	ND	1.57	ND	1.14	ND ND	1.15	ND	1.15	ND ND		<del>  ~</del>	<del>    ~</del>	ND	0.578	ND	0.647
Carbon disulfide	(NA)	(NA)	(NA)	ND	0.54	9 ND	1.56	ND	0.556	ND	11	0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.878	<u> </u>	<del></del>	ND	1.16	ND ND	1.29
Methylene chloride	49	210	1	ND	0.54		1.56	ND	0.556	ND	$\sqcap$	0.568	ND	0.787	ND	0.572	ND	0.577	ND ND	0.575	ND.	0.439	+	<del>    ~</del>	ND	0.578	ND	0.647
trans-1,2-Dichloroethene	1000	1000	50	ND	0.54		1.56	ND	0.556	ND		0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439	<del>  -</del> -	<del>    ~</del>	ND ND	0.578	ND NO	0.647
Methyl tert-butyl ether(MTBE)	(NA)	(NA)	(NA)	ND	0.54		3.90	ND	0.556	ND		0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND ND	0.439	<del>  _</del>	<del>    ~</del>	ND ND	0.578	ND	0.647
1,1-Dichloroethane	570	1000	10	ND	0.54		1.56	ND	0.556	ND		0.568	ND	0.787	ND	0.572	ND	0.577	ND ND	0.575	ND	0.439	<del>1                                    </del>	<del>    ~</del>	ND	0.578	ND	0.647
cis-1,2-Dichloroethene	79	1000	1	ND	0.54		1.56	ND	0.556	ND		0.568	ND	0.787	ND	0.572	ND	0.577	ND ND	0.575	ND	0.439	1 =	<del>    ~</del>	ND	0.578	ND	0.647
2-Butanone(MEK)	1000	1000	50	ND	1.10		1.56	ND	1.11	ND	$\Box$	1.14	ND	1.57	ND	1.14	ND	1,15	ND	1.15	ND	0.433	1	++-	ND	1.16	ND ND	1.29
Bromochloromethane	(NA)	(NA)	(NA)	ND	0.54		1.56	ND.	0.556	ND		0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439	<del>  -</del>	<del>                                     </del>	ND	0.578	ND ND	0.647
Chloroform	19	28	1	ND	0.54		1.56	ND	0.556	ND	$\Box$	0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439	-	<del>    ~</del>	ND ND	0.578	ND	0.647
1,1,1-Trichloroethane Carbon tetrachloride	210	1000	50	ND	0.54		1.56	ND	0.556	ND		0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439	1	<del>                                     </del>	ND	0.578	ND	0.647
1,2-Dichloroethane(EDC)	6	9	1	ND	0.54		1.56	ND	0.556	ND	Ш	0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439	1	1 -	ND	0.578	ND	0.647
Benzene	3	13	1	ND NO	0.549		1.56	ND	0.556	ND	ш	0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439	1 -	1 -	ND	0.578	ND	0.647
Trichloroethene	23	54	1	ND	0.549		0.779	ND	0.556	ND	Н	0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439	1	<del>                                     </del>	ND	0.578	1.11	0.647
1,2-Dichloropropane	10	43	NA NA	ND ND	0.549		1.56	ND	0.556	ND	╌	0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439	7	<del>  -</del>	ND	0.578	ND	0.647
Bromodichloromethane	11	46	1	ND ND	0.549		1.56	ND	0.556	ND	Н	0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439	7.	1	ND	0.578	ND	0.647
cis-1,3-Dichloropropene	(NA)	(NA)	(NA)	ND	0.549		1.56	ND	0.556	ND	⊢⊢	0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439	-	T =	ND	0.578	ND	0.647
4-Methyl-2-pentanone(MIBK)	1000	1000	50	ND	1.10		1.56	ND ND	0.556 1.11	ND ND	╌	0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439	7,8	-	ND	0.578	ND	0.647
Toluene	1000	1000	500	ND	0.549		1.56	ND	0.556	ND	1	0.568	ND	1.57	ND	1.14	ND	1.15	ND	1.15	ND	0.878		_ ~	ND	1.16	ND	1.29
trans-1,3-Dichloropropene	(NA)	(NA)	(NA)	ND	0.549		1.56	ND	0.556	ND	╌┼	0.568	ND ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439		-	ND	0.578	0.200	J 0.647
1,1,2-Trichloroethane	22	420	1	ND	0.549		1.56	ND	0.556	ND	$\vdash$	0.568	ND I	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439	~ 17	-	ND	0.578	ND	0.647
Tetrachloroethene	4	6	1	ND	0.549		1.56	ND	0.556	ND	╁┼	0.568	ND	0.787	ND ND	0.572	ND	0.577	ND	0.575	ND	0.439	-1	1	ND	0.578	ND	0.647
2-Hexanone	(NA)	(NA)	(NA)	ND	1.10		3.12	ND	1.11	ND	$\vdash$	1.14	ND	1.57	ND	0.572 1.14	ND ND	0.577	ND	0.575	ND	0.439	~ ·	_ ~	ND	0.578	ND	0.647
Dibromochloromethane	110	1000	1	ND	0.549	ND	1.56	ND	0.556	ND	$\vdash$	0.568	ND	0.787	ND	0.572	ND	1.15 0.577	ND ND	1.15 0.575	ND	0.878	<u> </u>	<u> </u>	ND	1.16	ND	1.29
1,2-Dibromoethane(EDB)	(NA)	(NA)	(NA)	ND	0.549	ND	1.56	ND	0.556	ND	$\vdash$	0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND ND	0.439		<u> </u>	ND	0.578	ND	0.647
Chlorobenzene	37	680	1	ND	0.549	ND	1.56	ND	0.556	ND	$\vdash$	0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439	~	1	ND	0.578	ND	0.647
Ethylbenzene	1000	1000	100	ND	0.549	9.42	1.56	ND	0.556	ND		0.568	ND	0.787	ND	0.572	ND	0.577	ND I	0.575	ND ND	0.439		├ <del>┤┋</del> ┤	ND	0.578	ND	0.647
Total Xylenes	410	1000	67	ND	0.549		1.56	ND	0.556	ND		0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439	-77	<del>                                     </del>	ND ND	0.578	0.289	0.647
Styrene	23	97	100	ND	0.549	ND	1.56	ND	0.556	ND		0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439		<del></del>	ND	0.578	0.264 J	0.647
Bromoform	86	370	1	ND	0.549		1.56	ND	0.556	ND		0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439		<del>                                     </del>	ND	0.578	ND	0.647 0.647
Isopropylbenzene	(NA)	(NA)	(NA)	ND	0.549	ND	1.56	ND	0.556	ND	$\Box$	0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439	~~	<del>                                     </del>	ND	0.578	ND	0.647
1,1,2,2-Tetrachloroethane 1,3-Dichlorobenzene	34 5100	70	1 1	ND	0.549		1.56	ND	0.556	ND	_	0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439		<del>                                     </del>	ND	0.578	ND	0.647
1,4-Dichlorobenzene	570	10000	100	ND	0.549		1.56	ND	0.556	ND	_	0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439	~**	1-	ND	0.578	ND	0.647
1,2-Dichlorobenzene	5100	10000	100 50	ND	0.549	ND ND	1.56	ND	0.556	ND	_	0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439		<del>  -</del>	ND	0.578	ND	0.647
1,2-Dibromo-3-chloropropane	(NA)	(NA)	(NA)	ND D	0.549	ND	1.56	ND	0.556	ND	_	0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439	~ "	1 -	ND	0.578	ND	0.647
1,2,4-Trichlorobenzene	68	1200	100	ND	0.549	ND	1.56	ND	0.556	ND	_	0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439	~~	1-	ND	0.578	ND	0.647
1,2,3-Trichlorobenzene	(NA)	(NA)	(NA)	ND	0.549	ND ND	1.56	ND ND	0.556	ND		0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439	~ "	-	ND	0.578	ND	0.647
1,1,2-Trichloro-1,2,2-trifluoroethane	(NA)	(NA)	(NA)	ND	0.549	ND	1.56	ND ND	0.556	ND		0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439	~ ~	-	ND	0.578	ND	0.647
Methyl acetate	(NA)	(NA)	(NA)	ND	0.549	ND	1.56	ND	0.556	ND ND	_	0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439	_~_		ND	0.578	ND	0.647
Cyclohexane	(NA)	(NA)	(NA)	ND	0.549	ND	1.56	ND	0.556	ND ND		0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439			ND	0.578	ND	0.647
Methylcyclohexane	(NA)	(NA)	(NA)	ND	0.549	ND	1.56	ND	0.556	ND	_	0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439		_ ~ ]	ND	0.578	ND	0.647
TOTAL VO's:	NA	NA NA	NA NA	ND	0.549	26.8	1.30	ND	0.556	ND		0.568	ND	0.787	ND	0.572	ND	0.577	ND	0.575	ND	0.439			ND	0.578	ND	0.647
TOTAL TIC's:	NA	NA NA	NA	15.7	+	471	<del>                                     </del>	ND		ND	-		ND 139	╅	ND		ND	+	ND		ND			$\bot$	ND		1.86 J	
TOTAL VO's & TIC's:	NA	NA	NA	15.7	_	498	<del></del>	ND	+	ND	-	<del>+</del>	1.38	+	ND	+	0.831	+	ND		ND				ND		0.880	
				,		1 400		140		ואט			1.38		ND	للللل	0.831		ND		ND		_~ ]		ND		2.74 J	

Table 2

Three Y, LLC Properties, 163 Old River Road Edgewater, NJ

Client ID:	NJDEP	NJDEP	NJDEP		3Y-38		3Y-3C	3	Y-3D	T-	3Y-4A		3Y-4B	21	Y-4C	1 4	V 45										
Sample Depth (ft bg):	RDC	NRDC	IGW	1	6-6.5		17-17.5		1-34.5	0-0	5/2-2.5 (VOs	. 1	6-6.5		1-4C  -14.5		Y-4D 1-44.5		Y-5A	1	Y-5B	1	3Y-5C		3Y-5D	4	IY-5R
Lab ID:	SCC	scc	SCC	02	2111-003	- 1	02111-004		52-001	1	01940-001	' ] n	1940-002	1	40-003				-4.5(VOs)		6-6.5	f .	16-16,5		8-38.5		7-17.5
Date Sampled:		1	İ		3/7/05		3/7/05		18/05		3/2/05	ľ	3/2/05		40-003 2/05		40-004		52-002		152-003	1 (	02152-004		152-005		152-006
Matrix:		İ			Soil		Soil	1 3	Soil	1	Soil	-	Soil		205 Soil		/2/05 Soil	1	8/05		V8/05	1	3/8/05	1 :	3/8/05	1	V8/05
VQCs (ppm)				Conc	Q MD	L Con	C Q MDL		Q MDL	Conc		Conc	Q MDL						Soil		Soil		Soil		Soil		Soil
Dichlorodifluoromethane	(NA)	(NA)	(NA)	ND	0.78			ND	0.602	ND	0.60		0.531	ND			2 MDL	<del></del>	MDL		Q MDL	Conc	<del>                                     </del>		Q MDL	Conc	Q MDL
Chloromethane	520	1000	10	ND	0.78			ND I	0.602	ND	0.60		0.531		0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
Vinyl chloride	2	7	10	ND	0.78			ND	0.602	ND	0.60		0.531	ND ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
Bromomethane	79	1000	1	ND	0.78			ND ND	0.602	ND	0.60		0.531	ND ND	0.643	ND I	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
Chloroethane	(NA)	(NA)	(NA)	ND	0.78			ND	0.602	ND	0.60		0.531	ND ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
Trichlorofluoromethane	(NA)	(NA)	(NA)	ND	0.78			ND	0.602	ND	0.60		0.531	ND	0.643 0.643	ND NO	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
1,1-Dichloroethene	8	150	10	ND	0.78			ND I	0.602	ND	0.60		0.531	ND	0.643	ND ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
Acetone	1000	1000	100	ND	1.5	ND.		ND	1.20	ND	1,21		1.06	ND	1.29	ND ND	1.10	ND ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
Carbon disulfide	(NA)	(NA)	(NA)	ND	0.78	2 ND	0.573	ND	0.602	ND	0.60		0.531	ND	0.643	ND	0.548	ND ND	1.45	ND	1.73	ND	1.36	ND	1.18	ND	1.16
Methylene chloride	49	210	1	ND	0.78	2 ND	0.573	ND	0.602	ND	0.60		0.531	ND	0.643	ND	0.548	ND	0.723	ND NO	0.865	ND	0.681	ND	0.588	ND	0.581
trans-1,2-Dichloroethene	1000	1000	50	ND	0.78	2 ND	0.573	ND	0.602	ND	0.60		0.531	ND	0.643	ND ND	0.548	ND	0.723 0.723	ND ND	0.865 0.865	ND	0.681	ND ND	0.588	ND	0.581
Methyl tert-butyl ether(MTBE)	(NA)	(NA)	(NA)	ND	0.78	2 ND	0.573	ND	0.602	ND	0.60		0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND ND	0.681	ND ND	0.588	ND	0.581
1,1-Dichloroethane	570	1000	10	ND	0.78	2 ND	0.573	ND	0.602	ND	0.60		0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND		ND	0.588	ND	0.581
cis-1,2-Dichloroethene	79	1000	1	ND	0.78	2 ND	0.573	ND	0.602	ND	0.60		0.531	ND	0.643	ND ND	0.548	ND	0.723	ND	0.865	ND ND	0.681	ND	0.588	ND	0.581
2-Butanone(MEK)	1000	1000	50	ND	1.50		1.15	ND	1.20	ND	1.21		1.06	ND	1.29	ND	1.10	ND ND	1,45	ND I	1.73	ND	1.36	ND ND	0.588 1.18	ND ND	0.581
Bromochloromethane	(NA)	(NA)	(NA)	ND	0.78	2 ND	0.573	ND	0.602	ND	0.60	7 ND	0.531	ND	0.643	ND	0.548	ND	0.723	ND ND	0.865	ND	0.681	ND			1.16
Chloroform	19	28	1	ND	0.78		0.573	ND	0.602	ND	0.60	7 ND	0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND ON	0.588 0.588	ND ND	0.581 0.581
1,1,1-Trichloroethane	210	1000	50	ND	0.78		0.573	ND	0.602	ND	0.60	ND ND	0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
Carbon tetrachloride	2	4	1	ND	0.78		0.573	ND	0.602	ND	0.60	7 ND	0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
1,2-Dichloroethane(EDC) Benzene	6	24	1	ND	0.78		0.573	ND	0.602	ND	0.60	7 ND	0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
Trichloroethene	3	13	1	0.754	J 0.78		0.573	ND	0.602	ND	0.60	ND ND	0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
1,2-Dichloropropane	23 10	54 43	1	ND	0.78		0.573	ND	0.602	ND	0.60		0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
Bromodichloromethane	11	45	NA .	ND ND	0.78		0.573	ND	0.602	ND	0.60		0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
cis-1,3-Dichloropropene	(NA)	(NA)	(NA)	ND	0.78		0.573	ND	0.602	ND	0.60		0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
4-Methyl-2-pentarione(MIBK)	1000	1000	50	ND	0.78 1.56		0.573	ND	0.602	ND	0.60		0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
Toluene	1000	1000	500	ND	0.78		0.573	ND ND	1.20	ND	1.21	-	1.06	ND	1.29	ND	1.10	ND	1.45	ND	1.73	ND	1.36	ND	1.18	ND	1.16
trans-1,3-Dichloropropene	(NA)	(NA)	(NA)	ND	0.78		0.573	ND ND	0.602	ND ND	0.607		0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
1,1,2-Trichloroethane	22	420	1	ND	0.78		0.573	ND ND	0.602	ND	0.607		0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
Tetrachloroethene	4	6	1	ND	0.78		0.573	ND	0.602	ND	0.607		0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
2-Hexanone	(NA)	(NA)	(NA)	ND	1.56	_	1.15	ND	1.20	ND	1.21	ND ND	0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
Dibromochloromethane	110	1000	1	ND	0.78		0.573	ND	0.602	ND	0.607		1.06 0.531	ND ND	1.29 0.643	ND	1.10	ND	1.45	ND	1.73	ND	1.36	ND	1.18	ND	1.16
1,2-Dibromoethane(EDB)	(NA)	(NA)	(NA)	ND	0.78		0.573	ND	0.602	ND	0.607		0.531	ND	0.643	ND ND	0.548 0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
Chlorobenzene	37	680	1	ND	0.78	ND	0.573	ND	0.602	ND	0.607		0.531	ND	0.643	ND	0.548	ND ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
Ethylbenzene	1000	1000	100	0.344	J 0.782	ND	0.573	ND	0.602	0.153	J 0.607	144	0.531	ND	0.643	ND	0.548	ND ND	0.723 0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
Total Xylenes	410	1000	67	0.185	J 0.782	ND	0.573	ND	0.602	0.209	J 0.607	ND ND	0.531	ND	0.643	ND	0.548	ND ND	0.723	0.696	0.865 J 0.865	ND ND	0.681	ND	0.588	ND	0.581
Styrene	23	97	100	ND	0.782		0.573	ND	0.602	ND	0.607		0.531	ND	0.643	ND	0.548	ND -	0.723	ND ND	0.865	ND	0.681 0.681	ND ND	0.588	ND	0.581
Bromoform	86	370	1	ND	0.782		0.573	ND	0.602	ND	0.607		0.531	ND	0.643	ND	0.548	ND	0.723	ND ND	0.865	ND	0.681	ND	0.588 0.588	ND ND	0.581
Isopropylbenzene	(NA)	(NA)	(NA)	ND	0.782		0.573	ND	0.602	ND	0.607	ND	0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND ND	0.588	ND ND	0.581 0.581
1,1,2,2-Tetrachloroethane	34	70	1	ND	0.782		0.573	ND	0.602	ND	0.607	ND	0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
1,3-Dichlorobenzene	5100	10000	100	ND	0.782		0.573	ND	0.602	ND	0.607		0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
1,4-Dichlorobenzene	570	10000	100	ND	0.782		0.573	ND	0.602	ND	0.607		0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
1,2-Dichlorobenzene	5100	10000	50	ND	0.782		0.573	ND	0.602	ND	0.607		0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND ND	0.581
1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene	(NA) 68	(NA)	(NA)	ND	0.782		0.573	ND	0.602	ND	0.607		0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
1,2,3-Trichlorobenzene	(NA)	1200 (NA)	100	ND	0.782		0.573	ND	0.602	ND	0.607	ND	0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND ND	0.581
1,1,2-Trichloro-1,2,2-trifluoroethane	(NA)	(NA)	(NA)	ND I	0.782		0.573	ND	0.602	ND	0.607		0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
Methyl acetate	(NA)	(NA)	(NA)	ND ND	0.782	.,	0.573	ND	0.602	ND	0.607	<del></del>	0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
Cyclohexane	(NA)	(NA)	(NA)	ND ND	0.782		0.573	ND	0.602	ND	0.607		0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
Methylcyclohexane	(NA)	(NA)	(NA)	ND	0.782		0.573	ND NO	0.602	ND	0.607	<del></del>	0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
TOTAL VO's:	NA NA	NA NA	NA NA	1.28	0.782		0.573	ND	0.602	ND	0.607	ND	0.531	ND	0.643	ND	0.548	ND	0.723	ND	0.865	ND	0.681	ND	0.588	ND	0.581
TOTAL TIC's:	NA NA	NA NA	NA NA	29.2	<del>'                                    </del>	ND 0.585	<del>}                                    </del>	ND	<del>                                     </del>	0.362	<u> </u>	ND	+	ND	$oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{ol}oldsymbol{ol}oldsymbol{ol}}}}}}}}}}}}}}}}}}$	ND		ND		0.696	J	ND		ND		ND	
TOTAL VO's & TIC's:	NA	NA NA	NA NA	30.5	<del>.  </del>	0.585	<del>                                     </del>	ND ND	<del>  </del>	13.3		ND	——↓	ND	<b></b>	ND	$oxed{\Box}$	ND	$\Box$	38.9		ND		ND		ND	1
	,	1464	1454	JU.J	<u> </u>	0.565	1 1 1	MD	1 1	13.7	JI	I ND I	1 1	ND		ND	1 T	ND	1 T	39.6		ND		ND		ND	

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Table 2
SUMMARY OF LABORATORY RESULTS FOR SOIL SAMPLES

# Three Y, LLC Properties, 163 Old River Road Edgewater, NJ

Client ID: Sample Depth (ft bg);	NJDEP ROC	NJDEP NRDC	NJDEP IGW	0-0.5	3Y-1. 5/2-2.5	A 5 (VOs)	1	Y-1B 6.5-7		3Y-1C 22.5-23	T	3Y-1D 56.5-57	<b>T</b>	3Y-1R 18-18.5	0-	3Y- -0.5/2-2	2A .5 (VOs)		Y-2B 3-6,5		Y-2C 3-20.5	•	3Y-2D 47.5-48		3Y-2E 2-2.5		Y-2R 3-36.5		3Y-3A
Lab ID: Date Sampled: Matrix:	SCC	scc	SCC	0	-3/4/0 3/4/0 Soil	5	] 3	014-002 8/4/05 Soil	;	014-003 3/4/05 Soil	0	2111-001 3/7/05 Soil	0:	2014-004 3/4/05 Soil		01940 3/2	0-005 /05	019 3/	40-006 /2/05	019 3	40-007 /2/05	01	1997-001 3/4/05		1997-002 3/4/05	019 3/	97-003 /4/05	021 3	2-2.5 (VOs) 111-002 3/7/05
BNAs (ppm)	_	†		_	TT		<del>                                     </del>		_	1 1	+	7	+-	1 1	+	34	71	`	Soil	<u> </u>	Soil	Ļ.,	Soil		Soil		Soil		Soil
Benzaldehyde	(NA)	(NA)	(NA)	ND	+	2.19	ND	1.17	ND	0.117	ND NO	0.236	ND	0.2	37 N	<del>.  </del>	2.30	ND	0.114	AID	0440			L	<del>                                     </del>	<del>   </del>			
Phenol	10000	10000	50	ND		2.19	ND	1.17	ND	0.117	ND	0.236	ND	0.2			2.30	ND	0.114	ND ND	0.118 0.118	ND ND	0.104	ND ND	1.20	ND ND	0.125	ND	0.476
bis(2-Chloroethyl)ether	0.66	3	10	ND		2.19	ND	1.17	ND	0.117	ND ND	0.236	ND	0.2			2.30	ND	0.114	ND	0.118	ND	0.104	ND	1.20	ND ND	0.125 0.125	ND ND	0.476
2-Chlorophenol	280	5200	10	ND	$\perp \downarrow$	2.19	ND	1.17	ND	0.117	' ND	0.236	ND	0.2	37 N.	D	2.30	ND	0.114	ND	0.118	ND	0.104	ND	1.20	ND	0.125	ND ND	0.476
2-Methylphenol	2800	10000	NA 10	ND	+	2.19	ND	1.17	ND	0.117	ND	0.236	ND	0.2	37 NE		2.30	ND	0.114	ND	0.118	ND	0.104	ND	1.20	ND	0.125	ND	0.476
bis(2-chloroisopropyl)ether 4-Methylphenol	2300	10000	10 NA	ND ND	╂╌╂	2.19	ND ND	1.17	ND	0.117	ND	0.236	ND	0.2			2.30	ND	0.114	ND	0.118	ND	0.104	ND	1.20	ND	0.125	ND	0.476
N-Nitroso-di-n-propylamine	0.66	0.66	10	ND	+ +	2.19 2.19	ND ND	1.17	ND ND	0.117	ND	0.236	ND	0.2			2.30	ND	0.114	ND	0.118	ND	0.104	ND	1.20	ND	0.125	ND	0.476
Acetophenone	(NA)	(NA)	(ÑĂ)	ND.	1 1	2.19	ND	1.17	ND	0.117	ND ND	0.236	ND ND	0.2			2.30	ND	0.114	ND	0.118	ND	0.104	ND	1.20	ND	0.125	ND	0.476
Hexachloroethane	6	100	100	ND		2.19	ND	1.17	ND	0.117	ND ND	0.236	ND	0.2			2.30	ND ND	0.114	ND ND	0.118 0.118	ND	0.104	ND	1.20	ND	0.125	ND	0.476
Nitrobenzene	28	520	10	ND	$\Box$	2.19	ND	1.17	ND	0.117	ND	0.236	ND	0.2		_	2.30	ND ND	0.114	ND	0.118	ND ND	0.104	ND ND	1.20	ND ND	0.125 0.125	ND	0.476
Isophorone	1100	10000	50	ND	$\sqcup$	2.19	ND	1.17	ND	0.117	ND	0.236	ND	0.23	37 NC	7	2.30	ND	0.114	ND	0.118	ND	0.104	ND	1.20	ND ND	0.125	ND ND	0.476 0.476
2-Nitrophenol 2,4-Dimethylphenol	(NA)	(NA)	(NA)	ND	₩	2.19	ND	1.17	ND	0.117	ND	0.236	ND	0.23		)	2.30	ND	0.114	ND	0.118	ND	0.104	ND	1.20	ND	0.125	ND	0.476
bis(2-Chloroethoxy)methane	1100 (NA)	10000 (NA)	10	ND	1-1	2.19	ND	1.17	ND	0.117	ND	0.236	ND	0.2		$\rightarrow$	2.30	ND	0.114	ND	0.118	ND	0.104	ND	1.20	ND	0.125	ND	0.476
2,4-Dichlorophenol	170	3100	(NA) 10	ND ND	╁╌╂	2.19	ND ND	1.17	ND ND	0.117 0.117	ND ND	0.236	ND	0.23			2.30	ND	0.114	ND	0.118	ND	0.104	ND	1.20	ND	0.125	ND	0.476
Naphthalene	230	4200	100	17.4	++	2.19	45.4	1.17	0.738	0.117	ND ND	0.236 0.236	1.59	0.23			2.30	ND 244	0.114	ND	0.118	ND	0.104	ND	1.20	ND	0.125	ND	0.476
4-Chloroaniline	230	4200	NA	ND		2.19	ND	1.17	ND	0.117	ND	0.236	ND	0.23		_	2.30 2.30	2.44 ND	0.114	ND ON	0.118 0.118	ND ND	0.104	ND	1.20	ND	0.125	9.10	0.476
Hexachlorobutadiene	1	21	100	ND		2.19	ND	1.17	ND	0.117	ND	0.236	ND	0.23			2.30	ND	0.114	ND ND	0.118	ND	0.104	ND ND	1.20	ND ND	0.125 0.125	ND ND	0.476
Caprolactam	(NA)	(NA)	(NA)	ND	1	2.19	ND	1.17	ND	0.117	ND	0.236	ND	0.23			2.30	ND	0.114	ND	0.118	ND	0.104	ND	1.20	ND	0.125	ND ND	0.476 0.476
4-Chloro-3-methylphenol	10000	10000	100	ND	$\vdash$	2.19	ND	1.17	ND	0.117	ND	0.236	ND	0.23			2.30	ND	0.114	ND	0.118	ND	0.104	ND	1.20	ND	0.125	ND	0.476
2-Methylnaphthalene Hexachlorocyclopentadiene	(NA) 400	(NA) 7300	(NA) 100	7.18 ND	+	2.19 2.19	14.5 ND	1.17	0.492	0.117	ND ND	0.236	1.07	0.23			2.30	0.136	0.114	ND	0.118	ND	0.104	ND	1.20	ND	0.125	3.10	0.476
2,4,6-Trichlorophenol	62	270	10	ND	+	2.19	ND ND	1.17	ND ND	0.117	ND	0.236	ND	0.23			2.30	ND	0.114	ND	0.118	ND	0.104	ND	1.20	ND	0.125	ND	0.476
2,4,5-Trichlorophenol	5600	10000	50	ND	$\vdash$	2.19	ND	1.17	ND ND	0.117	ND ND	0.236	ND ND	0.23		_	2.30	ND	0.114	ND	0.118	ND	0.104	ND	1.20	ND	0.125	ND	0.476
1-1'-Biphenyl	(NA)	(NA)	(NA)	ND		2.19	ND	1.17	ND	0.117	ND ND	0.236	ND	0.23			2.30	ND ND	0.114 0.114	ND ND	0.118	ND	0.104	ND	1.20	ND	0.125	ND	0.476
2-Chloronaphthalene	(NA)	(NA)	(NA)	ND		2.19	ND	1.17	ND	0.117	ND	0.236	ND	0.23			2.30	ND	0.114	ND	0.118	ND ND	0.104	ND ND	1.20	ND	0.125	ND	0.476
2-Nitroaniline	(NA)	(NA)	(NA)	ND		2.19	ND	1.17	ND	0.117	ND	0.236	ND	0.23		-	2.30	ND	0.114	ND	0.118	ND	0.104	ND	1.20 1.20	ND ND	0.125	ND ND	0.476
Dimethylphthalate	10000	10000	50	ND	1-1	2.19	ND	1.17	ND	0.117	ND	0.236	ND	0.23	7 ND		2.30	ND	0.114	ND	0.118	ND	0.104	ND	1.20	ND ND	0.125	ND	0.476
2,6-Dinitrotoluene Acenaphthylene	(NA)	(NA)	10 (NA)	ND 2.20	₩	2.19	ND 1	1.17	ND	0.117	ND	0.236	ND	0.23			2.30	ND	0.114	ND	0.118	ND	0.104	ND	1.20	ND	0.125	ND	0.476
3-Nitroaniline	(NA)	(NA)	(NA)	ND ND	╂	2.19	1.02 ND	J 1.17	ND ND	0.117	ND ND	0.236 0.236	ND	0.23			2.30	ND	0.114	ND	0.118	ND	0.104	ND	1.20	ND	0.125	2.77	0.476
Acenaphthene	3400	10000	100	22.7	1-1-	2.19	26.9	1.17	0.387	0.117	ND ND	0.236	1.06	0.23		_	2.30 2.30	ND 0.439	0.114	ND	0.118	ND	0.104	ND	1.20	ND	0.125	ND	0.476
2,4-Dinitrophenol	110	2100	10	ND		2.19	ND	1.17	ND	0.117	ND	0.236	ND	0.23		_	2.30	ND ND	0.114	ND D	0.118	ND ND	0.104	3.40 ND	1.20	ND ND	0.125	4.53	0.476
1-Nitrophenol	(NA)	(NA)	(NA)	ND	Ш	2.19	ND	1.17	ND	0.117	ND	0.236	ND	0.23			2.30	ND	0.114	ND ND	0.118	ND	0.104	ND	1.20	ND	0.125	ND D	0.476 0.476
2,4-Dinitrotoluene Dibenzofuran	(NA)	(NA)	10	ND	$\vdash$	2.19	ND	1.17	ND	0.117	ND	0.236	ND	0.23			2.30	ND	0.114	ND	0.118	ND	0.104	ND	1.20	ND	0.125	ND	0.476
Diethylphthalate	10000	10000	(NA) 50	11.7 ND	⊢	2.19	21.9 ND	1.17	0.418 ND	0.117 0.117	ND	0.236	1.79	0.23				0.284	0.114	ND	0.118	ND	0.104	2.46	1.20	ND	0.125	3.71	0.476
luorene	2300	10000	100	19.3	$\vdash$	2.19	37.9	1.17	0.672	0.117	ND ND	0.236	ND 4.13	0.23		_	2.30	ND 0.372	0.114	ND	0.118	ND	0.104	ND	1.20	ND	0.125	ND	0.476
I-Chlorophenyl-phenylether	(NA)	(NA)	(NA)	ND		2.19	ND	1.17	ND	0.117	ND	0.236	ND.	0.23		_	2.30	ND ND	0.114	ND ND	0.118	ND ND	0.104 0.104	2.78 ND	1.20	ND	0.125	3.83	0.476
Nitroaniline	(NA)	(NA)	(NA)	ND		2.19	ND	1.17	ND	0.117	ND	0.236	ND	0.23		_	2.30	ND	0.114	ND	0.118	ND	0.104	ND	1.20	ND ND	0.125	ND ND	0.476 0.476
I,2,4,5-Tetrachlorobenzene I,6-Dinitro-2-methylphenol	(NA)	(NA)	(NA)	ND	╌	2.19	ND	1.17	ND	0.117	ND	0.236	ND	0.23	7 ND		2.30	ND	0.114	ND	0.118	ND	0.104	ND	1.20	ND	0.125	ND	0.476
N-Nitrosodiphenylamine	(NA) 140	(NA) 600	(NA) 100	ND ND	⊢	2.19	ND	1.17	ND	0.117	ND	0.236	ND	0.23			2.30	ND	0.114	ND	0.118	ND	0.104	ND	1.20	ND	0.125	ND	0.476
-Bromophenyl-phenylether	(NA)	(NA)	(NA)	ND	$\vdash$	2.19	ND ND	1.17	ND ND	0.117	ND ND	0.236	ND ND	0.23		-	2.30	ND	0.114	ND	0.118	ND	0.104	ND	1.20	ND	0.125	ND	0.476
lexachlorobenzene	0.66	2	100	ND		2.19	ND	1.17	ND	0.117	ND	0.236	ND ND	0.23		$\dashv$	2.30	ND ND	0.114	ND ND	0.118	ND	0,104	ND	1.20	ND	0.125	ND	0.476
Atrazine	(NA)	(NA)	(NA)	ND		2.19	ND	1.17	ND	0.117	ND	0.236	ND	0.23	7 ND	+	2.30	ND	0.114	ND	7 440	ND ND	0.104	ND	1.20	ND ND	0.125	ND	0.476
Pentachlorophenot	6	24	100	ND	Ш	2.19	ND	1.17	ND	0.117	ND	0.236	ND	0.23			2.30	ND	0.114	ND	<del></del>	ND	0.104	ND	1.20	ND	0.125	ND ND	0.476
Phenanthrene Inthracene	(NA) 10000	(NA)	(NA)	219	$\vdash \vdash$	2.19	175	1.17	2.57	0.117	ND	0.236	14.7	0.23			2.30	1.95	0.114	ND		ND		33.7	1.20	ND		28.3	0.476
Carbazole	(NA)	10000 (NA)	100 (NA)	44.4 20.5	$\vdash$	2.19	165 46.3	1.17	3.10 1.11	0.117	ND	0.236	31.4	0.23				0.743	0.114	ND		ND	0.104	9.70		ND		9.38	0.476
Di-n-buty/phthalate	5700	10000	100	ND ND		2.19	40.3 ND	1.17	ND ND	0.117	ND ND	0.236	7.91 ND	0.23		$\rightarrow$		0.175	0.114	ND		ND		1.85		ND		2.56	0.476
luoranthene	2300	10000	100	277	$\vdash$	2.19	133	1.17	1.40	0.117	ND	0.236	3.45	0.23			2.30	ND 1.60	0.114	ND ND		ND ND		ND	1.20	ND		0.293 J	0.476
yrene	1700	10000	100	174	$\Box$	2.19	77.8	1.17	0.998	0.117	ND	0.236	3.53	0.237				1.25	0.114	ND	+	ND		60.8	1.20	ND	<del></del>	62.6	0.476
lutylbenzylphthalate	1100	10000	100	ND		2.19	ND	1.17	ND	0.117	ND	0.236	ND	0.237	_			ND ND	0.114	ND ND	<del> </del>	ND		52.5	1.20	ND		45.9	0.476
,3'-Dichlorobenzidine	2	6	100	ND		2.19	ND	1.17	ND	0.117	ND	0.236	ND	0.23				ND	0.114	ND		ND		ND ND	1.20	ND ND		ND	0.476
lenzo[a]anthracene	0.9	4	500	121	_		37.1		0.474	0.117	ND	0.236	1.22	0.237		_		0.561	0.114	ND		ND		30.2		ND		ND 30.5	0.476
hrysene is(2-Ethylhexyl)phthalate	9	40	500	142			41.6		0.547	0.117	ND	0.236	1.55	0.237			2.30	0.713	0.114	ND		ND		35.2		ND		37.1	0.476
i-n-octylphthalate	1100	210 10000	100	ND ND	_	2.19	ND ND	1.17	ND ND	0.117	ND	0.236	0.155					ND	0.114	ND		ND	0.104	ND		ND		ND	0.476
enzo[b]fluoranthene	0.9	4	50	106			25.3	1.17	ND 0.295	0.117 0.117	ND ND	0.236 0.236	ND 0.030	0.237				ND .	0.114	ND		ND		ND		ND	0.125	ND	0.476
enzo[k]fluoranthene	0.9	4	500	80.1			23.4		0.301	0.117	ND -	0.236	0.939	0.237				0.288 0.343	0.114	ND		ND		28.2		ND		27.8	0.476
enzo[a]pyrene	0.66	0.66	100	116			33.6		0.397	0.117	ND	0.236	1.13	0.237				0.343	0.114 0.114	ND ND		ND ND		19.7		ND		27.8	0.476
ideno[1,2,3-cd]pyrene	0.9	4	500	48.8			15.9		0.184	0.117	ND	0.236	0.561	0.237				0.455	0.114	ND		ND ND		25.8 16.0		ND ND		32.4	0.476
ibenz[a,h]anthracene	0.66	0.66	100	33.6	_		7.71	1.17	ND	0.117	ND	0.236	0.301	0.237				0.117	0.114	ND		ND NO		6.43		ND ND		16.8 10.0	0.476 0.476
enzo[g,h,i]perylene	(NA)	(NA)	(NA)	44.9		2.19	16.8	1.17	0.189	0.117	ND	0.236	0.668	0.237				0.267	0.114	ND		ND		15.8	1.20	ND		16.5	0.476
OTAL BNA'S: OTAL TIC's:	NA NA	NA NA	NA I	1510	-		946 J	4	14.3	4	ND		77.9	1	553			12.4		ND		ND	<del></del>	345	<del>                                     </del>	ND		375 J	1 5.415
OTAL BNA'S & TIC's:	NA NA	NA NA	NA NA	352 1860	+		136 1080 J	+	0.586	<del>  </del>	ND	<del> </del>	1.02		53.3			0.580		ND		ND		20.7		ND		71.5	
		- 455	120	1000	_ 1		1000 ] ]		14.9		ND		78.9	1	606	11		13.0	L	ND		ND	1	366		ND		447 J	1

MATTERIAL AND AND THE COLUMN

Table 2
SUMMARY OF LABORATORY RESULTS FOR SOIL SAMPLES

#### Three Y, LLC Properties, 163 Old River Road Edgewater, NJ

													Edgewa	ter, NJ														
Client ID:	NJDEP	NJDEP	NJDEP	7	3Y-3B			Y-3C	ı	Y-3D	Т	3Y-4A	T-	3Y-4B	1 3	Y-4C	37	/-4D		3Y-5A	3	Y-5B		3Y-5C		3Y-5D	3'	Y-6R
Sample Depth (ft bg): Lab (D:	RDC	NRDC	IGW	1.	6-6.5 02111-0			7-17.5 11-004		4-34.5		5/2-2.5 (VOs)		6-6.5		4-14.5	44	-44.5	0-0.5	/4-4.5(VOs)		6-6.5	1	16-16.5		38-38.5		7-17.5
Date Sampled:	555	"	300	'	3/7/05	"		11-004 <i>1</i> 7/05	_	152-001 V8/05	ľ	1940-001 3/2/05		940-002 3/2/05		940-003	1	10-004		152-002	,	152-003	0;	2152-004	02	152-005	021	52-006
Matrix:			<u> </u>		Soil			Soil		Soil	1	Soil	1	Soil		V2/05 Soil		2/05   ioil		3/8/05 Soil		/8/05 Soil		3/8/05 Soil	1	3/8/05		/8/05
BÑÃs (ppm)											1	T			<del>                                     </del>			<u> </u>	Т		· ·	3011	-	3011	<del> </del>	Soil		Soil
Benzaldehyde Phenol	(NA)	(NA)	(NA)	ND	+		ND	0.243	ND	0.122	ND	0.12		0.125	ND	0.120	ND	0.116	ND	0.105	ND	1.69	ND	0.443	ND	0.118	ND	0.198
bis(2-Chloroethyl)ether	10000	10000	10	ND ND	╁╌┼╴		ND ND	0.243	ND ND	0.122	ND	0.12		0.125	ND	0.120	ND	0.116	ND	0.105	ND	1.69	ND	0.443	ND	0.118	ND	0.198
2-Chlorophenol	280	5200	10	ND	++		ND	0.243	ND	0.122	ND ND	0.125		0.125	ND ND	0.120	ND ND	0.116	ND	0.105	ND	1.69	ND	0.443	ND	0.118	ND	0.198
2-Methylphenol	2800	10000	NA	ND			ND	0.243	ND	0.122	ND	0.125		0.125	ND	0.120	ND	0.116	ND ND	0.105	ND ND	1.69	ND ND	0.443 0.443	ND ND	0.118	ND ND	0.198
bis(2-chloroisopropyl)ether  4-Methylphenol	2300 2800	10000	NA	ND ND	+-		ND	0.243	ND	0.122	ND	0.125	<del></del>	0.125	ND	0.120	ND	0.116	ND	0.105	ND	1.69	ND	0.443	ND	0.118	ND	0.198 0.198
N-Nitroso-di-n-propylamine	0.66	0.66	10	ND	╂╌╂╌		ND	0.243	ND ND	0.122	ND ND	0.125	~	0.125	ND	0.120	ND	0.116	ND	0.105	ND	1.69	ND	0.443	ND	0.118	ND	0.198
Acetophenone	(NA)	(NA)	(NA)	ND			ND	0.243	ND ND	0.122	ND	0.125	_	0.125 0.125	ND ND	0.120	ND ND	0.116 0.116	ND ND	0.105	ND ND	1.69	ND	0.443	ND	0.118	ND	0.198
Hexachloroethane	6	100	100	ND			ND	0.243	ND	0.122	ND	0.125	ND	0.125	ND	0.120	ND ND	0.116	ND	0.105	ND	1.69	ND ND	0.443	ND ND	0.118 0.118	ND ND	0.198 0.198
Nitrobenzene Isophorone	28 1100	10000	10 50	ND ND			ND ON	0.243	ND	0.122	ND	0.125	ND	0.125	ND	0.120	ND	0.116	ND	0.105	ND	1.69	ND	0.443	ND	0.118	ND	0.198
2-Nitrophenol	(NA)	(NA)	(NA)	ND	_		ND D	0.243	ND ND	0.122	ND ND	0.125 0.125	ND ND	0.125 0.125	ND ND	0.120	ND	0.116	ND	0.105	ND	1.69	ND	0.443	ND	0.118	ND	0.198
2,4-Dimethylphenol	1100	10000	10	ND			ND D	0.243	ND	0.122	ND	0.125	ND ND	0.125	ND ND	0.120	ND ND	0.116	ND ND	0.105 0.105	ND ND	1.69	ND ND	0.443	ND	0.118	ND	0.198
bis(2-Chloroethoxy)methane	(NA)	(NA)	(NA)	ND	_		ND .	0.243	ND	0.122	ND	0.125	ND	0.125	ND	0.120	ND	0.116	ND	0.105	ND	1.69	ND ND	0.443	ND ND	0.118	ND ND	0.198
2,4-Dichlorophenol Naphthalene	170 230	3100 4200	100	117			ND	0.243 0.243	ND ND	0.122	ND ND	0.125		0.125	ND	0.120	ND	0.116	ND	0.105	ND	1.69	ND	0.443	ND	0.118	ND	0.198
4-Chloroaniline	230	4200	NA NA	ND ND	+		ND ON	0.243	ND I	0.122	ND ND	0.125 0.125	0.655 ND	0.125	ND ND	0.120	ND ND	0.116	ND	0.105	5.58	1.69	1.04	0.443	0.275	0.118	0.437	0.198
Hexachlorobutadiene	1	21	100	ND		2.56 N	VID D	0.243	ND	0.122	ND	0.125	ND	0.125	ND	0.120	ND ND	0.116	ND ND	0.105	ND ND	1.69	ND ND	0.443 0.443	ND	0.118	ND	0.198
Caprolactam 4-Chloro-3-methylphenol	(NA) 10000	(NA)	(NA)	ND	+		ND .	0.243	ND	0.122	ND	0.125	ND	0.125	ND	0.120	ND	0.116	ND	0.105	ND	1.69	ND	0.443	ND ND	0.118	ND ND	0.198 0.198
2-Methylnaphthalene	(NA)	(NA)	100 (NA)	ND 24.0	+		ND I	0.243	ND ND	0.122	ND ND	0.125	ND O740	0.125	ND	0.120	ND	0.116	ND	0.105	ND	1.69	ND	0.443	ND	0.118	ND	0.198
Hexachlorocyclopentadiene	400	7300	100	ND ND			10	0.243	ND	0.122	ND ND	0.125	0.746 ND	0.125 0.125	ND ND	0.120	ND ND	0.116	ND D	0.105	1.98	1.69	ND	0.443	0.121	0.118	0.132 J	J 0.198
2,4,6-Trichlorophenol	62	270	10	ND			(D	0.243	ND	0.122	ND	0.125	ND ND	0.125	ND	0.120	ND	0.116	ND	0.105	ND ND	1.69 1.69	ND ND	0.443	ND ND	0.118	ND	0.198
2,4,5-Trichlorophenol 1-1'-Biphenyl	5600 (NA)	10000	50	ND			1D	0.243	ND	0.122	ND	0.125	ND	0.125	ND	0.120	ND	0.116	ND	0.105	ND	1.69	ND	0.443	ND I	0.118	ND ND	0.198
2-Chloronaphthalene	(NA)	(NA)	(NA)	ND ND			(D)	0.243	ND ND	0.122	ND ND	0.125	ND ND	0.125	ND	0.120	ND	0.116	ND	0.105	ND	1.69	ND	0.443	ND	0.118	ND	0.198
2-Nitroaniline	(NA)	(NA)	(NA)	ND			10	0.243	ND ND	0.122	ND ND	0.125	ND D	0.125	ND ND	0.120	ND ND	0.116	ND ND	0.105	ND	1.69	ND	0.443	ND	0.118	ND	0.198
Dimethylphthalate	10000	10000	50	ND	_		(D	0.243	ND	0.122	ND	0.125	ND	0.125	ND	0.120	ND ND	0.116	ND	0.105 0.105	ND ND	1.69 1.69	ND ND	0.443 0.443	ND ND	0.118 0.118	ND	0.198
2,6-Dinitrotoluene Acenaphthylene	(NA)	(NA)	10 (NA)	ND 4.60			ID	0.243	ND	0.122	ND	0.125	ND	0.125	ND	0.120	ND	0.116	ND	0.105	ND	1.69	ND	0.443	ND	0.118	ND ND	0.198
3-Nitroaniline	(NA)	(NA)	(NA)	ND ND			ID I	0.243	ND ND	0.122	ND ND	0.125	0.086 ND	J 0.125	ND	0.120	ND	0.116	0.115	0.105	3.48	1.69	ND	0.443	ND	0.118	ND	0.198
Acenaphthene	3400	10000	100	46.5			iD	0.243	ND	0.122	0.225	0.125	0.511	0.125	ND	0.120	ND ND	0.116 0.116	ND 0.097	0.105 J 0.105	ND 11.2	1.69	ND O	0.443	ND	0.118	ND	0.198
2,4-Dinitrophenol	110	2100	10	ND			O	0.243	ND	0.122	ND	0.125	ND	0.125	ND	0.120	ND	0.116	ND .	0.105	ND ND	1.69	0.496 ND	0.443	0.252 ND	0.118	0.338 ND	0.198
4-Nitrophenol 2,4-Dinitrotoluene	(NA)	(NA)	(NA) 10	ND ND	-		D OI	0.243	ND	0.122	ND	0.125	ND	0.125	ND	0.120	ND	0.116	ND	0.105	ND	1.69	ND	0.443	ND	0.118	ND	0.198
Dibenzofuran	(NA)	(NA)	(NA)	30.5	_		D	0.243	ND ND	0.122	ND 0.113	J 0.125	ND ND	0.125 0.125	ND	0.120	ND ND	0.116	ND	0.105	ND	1.69	ND	0.443	ND	0.118	ND	0.198
Diethylphthalate	10000	10000	50	ND			D	0.243	ND	0.122	ND	0.125	ND	0.125	ND	0.120	ND ND	0.116	ND ND	0.105	7.88 ND	1.69	0.339 ND	J 0.443 0.443	0.181 ND	0.118 0.118	0.228 ND	0.198
Fluorene 4-Chlorophenyl-phenylether	2300 (NA)	10000 (NA)	100	38.1		2.56 N	_	0.243	ND	0.122	0.214	0.125	0.849	0.125	ND	0.120	ND	0.116	ND	0.105	16.1	1.69	0.451	0.443	0.298		0.301	0.198
4-Nitroaniline	(NA)	(NA)	(NA)	ND ND		2.56 N		0.243	ND ND	0.122	ND ND	0.125	ND ND	0.125	ND	0.120	ND	0.116	ND	0.105	ND	1.69	ND	0.443	ND	0.118	ND	0.198
1,2,4,5-Tetrachlorobenzene	(NA)	(NA)	(NA)	ND		2.56 N	_	0.243	ND	0.122	ND	0.125	ND ND	0.125 0.125	ND ND	0.120	ND ND	0.116 0.116	ND ND	0.105	ND ND	1.69	ND	0.443	ND	0.118	ND	0.198
4,6-Dinitro-2-methylphenol	(NA)	(NA)	(NA)	ND		2.56 N		0.243	ND	0.122	ND	0.125	ND	0.125	ND	0.120	ND	0.116	ND	0.105	ND I	1.69	ND ND	0.443	ND ND	0.118	ND ND	0.198
N-Nitrosodiphenylamine 4-Bromophenyl-phenylether	140 (NA)	600 (NA)	100 (NA)	ND ND	_	2.56 N		0.243	ND	0.122	ND	0.125	ND	0.125	ND	0.120	ND	0.116	ND	0.105	ND	1.69	ND	0.443	ND	0.118	ND	0.198
Hexachlorobenzene	0.66	2	100	ND ND	-	2.56 N		0.243	ND ND	0.122	ND ND	0.125	ND ND	0.125	ND ND	0.120	ND	0.116	ND	0.105	ND	1.69	ND	0.443	ND	0.118	ND	0.198
Atrazine	(NA)	(NA)	(NA)	ND	- 2	2.56 NI	D	0.243	ND	0.122	ND	0.125	ND	0.125	ND ND	0.120	ND ND	0.116 0.116	ND ND	0.105	ND ND	1.69	ND ND	0.443	ND ND	0.118	ND	0.198
Pentachlorophenol Phenanthrene	(NA)	24 (NA)	100	ND 103		2.56 N		0.243	ND	0.122	ND	0.125	ND	0.125	ND	0.120	ND	0.116	ND	0.105	ND	1.69	ND	0.443	ND		ND ND	0.198 0.198
Anthracene	10000	(NA) 10000	(NA) 100	193 34.5		2.56 NI 2.56 NI		0.243 0.243	ND ND	0.122	3.15 0.782	0.125 0.125	0.883	0.125	ND		ND		0.839	0.105	106	1.69	2.62	0.443	1.56	0.118	1.70	0.198
Carbazole	(NA)	(NA)	(NA)	15.4		2.56 NI		0.243	ND	0.122	0.169	0.125		0.125	ND ON	0.120	ND		0.287 0.088 J	0.105	42.6 3.04	1.69	0.732	0.443	0.472		0.371	0.198
Di-n-butylphthalate	5700	10000	100	ND 475	2	2.56 NO	D	0.243	ND	0.122	ND	0.125	ND	0.125	ND	0.120			ND I	0.105	ND ND	1.69	ND ND	0.443	0.121 ND		0.183 J ND	0.198 0.198
Pyrene	2300 1700	10000	100	175	_	2.56 NO	_	0.243	ND	0.122	5.10	0.125	4.00	0.125	ND	0.120	ND		2.47	0.105	118		2.10	0.443	1.28		1.10	0.198
Butylbenzylphthalate	1100	10000	100	127 ND		2.56 NO	-	0.243	ND	0.122	4.07	0.125	3.62	0.125	ND		ND		2.88	0.105	115	1.69	2.16	0.443	1.23		1.13	0.198
3,3'-Dichlorobenzidine	2	6	100	ND		2.56 NO		0.243 0.243	ND ND	0.122	ND ND	0.125 0.125	ND ND	0.125 0.125	ND ND		ND ND		7.61	0.105	ND	1.69	ND	0.443	ND		ND	0.198
Benzo[a]anthracene	0.9	4	500	65.2		.56 NE		0.243	ND	0.122	2.53	0.125	1.80	0.125	ND	0.120			ND 1.60	0.105	ND 42.6	1.69	ND D	0.443	ND		ND	0.198
Chrysene	9	40	500	73.9		.56 NE		0.243	ND	0.122	2.77	0.125	2.04	0.125	ND	0.120			2.15	0.105	43.0	+	1.02		0.525 0.528		).425 ).479	0.198 0.198
ois(2-Ethylhexyl)phthalate Di-n-octylphthalate	49 1100	210 10000	100	ND ND		.56 NE		0.243 0.243	ND ND	0.122	0.116	J 0.125	ND	0.125	ND	0.120		0.116	0.577	0.105	ND	1.69	ND	0.443	ND	<del></del>	ND ND	0.198
Benzo[b]fluoranthene	0.9	4	50	46.2		.56 NE		0.243	ND D	0.122 0.122	ND 2.03	0.125 0.125	ND	0.125	ND ND		ND ND		ND 1 55	0.105	ND .	1.69	ND	0.443	ND	0.118	ND	0.198
Benzo[k]fluoranthene	0.9	4	500	38.3	2	.56 NI	_	0.243	ND	0.122	1.59	0.125	0.982	0.125	ND		ND D		1.55	0.105 0.105	26.1		0.605		0.234		210	0.198
denzo[a]pyrene ndeno[1,2,3-cd]pyrene	0.66	0.66	100	55.9		.56 NE		0.243	ND	0.122	2.25	0.125	1.37	0.125	ND	0.120	ND D		1,84	0.105	33.2		0.746		0.405		.302	0.198 0.198
Dibenz[a,h]anthracene	0.9	0.66	500 100	24.3 12.1		.56 NE		0.243	ND ND	0.122	1.38	0.125	0.742	0.125	ND				1.17	0.105	15.7	1.69	0.389 .	J 0.443	0.211	0.118 0	.154 J	0.198
lenzo[g,h,i]perylene	(NA)	(NA)	(NA)	23.5		.56 NE			ND	0.122	0.764 1.48		0.414	0.125	ND ND		ND ND		1.37	0.105	6.86	1.69	ND O		0.090 J	0.118	ND	0.198
OTAL BNA'S:	NA	NA	NA	1150		NE			ND		28.7	1 5123	25.6 J	1 3.123	ND		ND ON		1.37 26.9 J	0.105	17.2 636	1.69	0.405 .		0.244 8.39 J		.174 J 3.01 J	0.198
OTAL TIC's:	NA	NA	NA	70.7	i	1 416																					101 I J	
OTAL BNA'S & TIC's.	NA NA	NA NA	NA NA	1220		NC NC		├	ND ND		2.27 31.0		8.05 33.7 J		ND ND	<del></del>	ND ND		4.96		37.1		4.51	1-1	ND		16.2	<del>                                     </del>

William the management

Table 2

#### Three Y, LLC Properties, 163 Old River Road Edgewater, NJ

Client ID:	NJDEP	NJDEP	NJDEP	1	3Y-1A	39	7-1B	3Y-	10		3Y-1D		3Y-1R		2V 24		AL AD	_									
Sample Depth (ft bg):	RDC	NRDC	IGW		/2-2.5 (VOs)		5-7	22.5			56.5-57		31-1K  8-18.5		3Y-2A 2-2.5 (VOs)		3Y-2B 6-6.5		3Y-2C		3Y-2D		3Y-2E	,	3Y-2R		3Y-JA
Lab iD:	SCC	scc	scc		2014-001		4-002	02014		1	2111-001	1	014-004		2-2.3 (VOS) 940-005	1 .	01940-006	1	20-20.5 1940-007		47,5-48	١ 👡	2-2.5	1	36-36.5		2-2.5 (VOs)
Date Sampled:	ĺ		1	1	3/4/05	3/4	4/05	3/4/		1	3/7/05		3/4/05	1	3/2/05	-	3/2/05	i	3/2/05	1	1997-001 3/4/05		997-002		997-003		111-002
Matrix:					Soil	s	oit	So	ril	l	Soil	`	Soil		Soil	1	Soil	1	Soil	1	Soil	1	3/4/05 Soil	1	3/4/05 Soil		3/7/05 Soil
PCB's (ppm)														1		+	11	<del>                                     </del>	1	<del>                                     </del>	1	<del></del>		+ -	3011		3011
Aroclor-1016	0.49	2	50	ND	0.017	ND	0.017	ND	0.018	ND	0.016	ND	0.018	ND	0.020	ND ND	0.018	ND	0.018	ND	0.016	ND	0.019	ND	0.018	ND	0.018
Aroclor-1221 Aroclor-1232	0.49	2	50	ND	0.017	ND	0.017	ND	0.018	ND	0.016	ND	0.018	ND	0.020	ND ND	0.018	ND	0.018	ND	0.016	ND	0.019	_	0.018	ND	0.018
Aroclor-1232 Aroclor-1242	0.49	2	50	ND	0.017	ND	0.017	ND	0.018	ND	0.016	ND	0.018	ND	0.020	ND	0.018	ND	0.018	ND	0.016	ND	0.019	ND	0.018	ND	0.018
Aroclor-1248	0.49	2 2	50	ND	0.017	ND	0.017	ND	0.018	ND	0.016	ND	0.018		0.020	ND	0.018	ND	0.018	ND	0.016	ND	0.019	ND	0.018	ND	0.018
Aroclor-1254	0.49	1 2	50	ND ND	0.017	ND ND	0.017	ND ND	0.018	ND	0.016	ND	0.018	ND	0.020		0.018	ND	0.018	ND	0.016	ND	0.019	ND	0.018	ND	0.018
Aroclor-1260	0.49	2	50	ND	0.017	ND ND	0.017	ND ND	0.018	ND	0.016	ND	0.018	ND	0.020		0.018	ND	0.018	ND	0.016	ND	0.019	ND	0.018	ND	0.018
Pesticides (ppm)		<del>                                     </del>		110	0.017	1 10	0.017	NU	0.018	ND	0.016	ND	0.018	ND	0.020	ND-	0.018	-ND	0.018	ND	0.016	ND	0.019	ND	0.018	ND	0.018
alpha-BHC	(NA)	(NA)	(NA)	ND	0.00419	ND	0.00435	ND -	0.0046	ND	0.00006	1 45	0.0045	I			1										
beta-BHC	(NA)	(NA)	(NA)	ND	0.00419	ND	0.00435	ND	0.0046	ND	0.00396	ND ND	0.0045	1	0.005		0.00454	ND	0.00455	ND	0.00392		0.0047	ND	0.00451	ND	0.00442
gamma-BHC	0.52	2.2	50	ND	0.00419	ND	0.00435	ND	0.0046	ND	0.00396	ND ND	0.0045		0.005		0.00454	ND	0.00455	ND	0.00392	ND	0.0047	ND	0.00451	ND	0.00442
delta-BHC	(NA)	(NA)	(NA)	ND	0.00419	ND ND	0.00435	ND ND	0.0046	ND	0.00396	ND	0.0045		0.005		0.00454	ND	0.00455	ND	0.00392	ND	0.0047	ND	0.00451	ND	0.00442
Heptachlor	0.15	0.65	50	ND	0.00419	ND	0.00435	ND	0.0046	ND	0.00396	ND ND	0.0045		0.005		0.00454	ND ND	0.00455	ND ND	0.00392		0.0047	ND	0.00451	ND	0.00442
Aldrin	0.04	0.17	50	ND	0.00419	ND	0.00435	ND	0.0046	ND	0.00396	ND	0.0045		0.005		0.00454	ND	0.00455	ND ND	0.00392	ND	0.0047	ND	0.00451	ND	0.00442
Heptachlor epoxide	(NA)	(NA)	(NA)	ND	0.00419	ND	0.00435	ND	0.0046	ND	0.00396	ND	0.0045	ND ND	0.0051		0.00454	ND	0.00455	ND	0.00392	ND ND	0.0047	ND ND	0.00451	ND	0.00442
Endosulfan I	(NA)	(NA)	(NA)	ND	0.00419	ND	0.00435	ND	0.0046	ND	0.00396	ND	0.0045	ND ND	0.0051		0.00454	ND	0.00455	ND	0.00392	ND ON	0.0047	ND	0.00451	ND ND	0.00442
4,4'-DDE	2	9	50	ND	0.00419	ND	0.00435	ND	0.0046	ND	0.00396	ND	0.0045	ND	0.0051		0.00454	ND	0.00455	ND	0.00392	ND ND	0.0047	ND	0.00451	ND	0.00442
Dieldrin Endein	0.042	0.18	50	ND	0.00419	ND	0.00435	ND	0.0046	ND	0.00396	ND	0.0045	ND	0.0051		0.00454	ND	0.00455	ND	0.00392	ND	0.0047	ND ND	0.00451	ND	0.00442
Endrin Endosulfan II	17	310	50	ND	0.00419	ND	0.00435	ND	0.0046	ND	0.00396	ND	0.0045	ND	0.0051	ND	0.00454	ND	0.00455	ND	0.00392	ND	0.0047	ND	0.00451	ND ND	0.00442
4,4'-DDD	(NA)	(NA)	(NA)	ND ND	0.00419	ND	0.00435	ND	0.0046	ND	0.00396	ND	0.0045	ND	0.0051	ND	0.00454	ND	0.00455	ND	0.00392	ND	0.0047	ND	0.00451	ND	0.00442
Endrin aldehyde	(NA)	12 (NA)	(NA)	ND	0.00419	ND	0.00435	ND	0.0046	ND	0.00396	ND	0.0045	ND	0.0051	ND	0.00454	ND	0.00455	ND	0.00392	ND	0.0047	ND	0.00451	ND	0.00442
Endosulfan sulfate	(NA)	(NA)	(NA)	ND ND	0.00419	ND ND	0.00435	ND	0.0046	ND	0.00396	ND	0.0045	ND	0.0051	ND	0.00454	ND	0.00455	ND	0.00392	ND	0.0047	ND	0.00451	ND	0.00442
4,4'-DDT	2	9	500	ND ND	0.00419	ND ND	0.00435	ND ND	0.0046	ND	0.00396	ND	0.0045	ND	0.0051	ND	0.00454	ND	0.00455	ND	0.00392	ND	0.0047	ND	0.00451	ND	0.00442
Endrin ketone	(NA)	(NA)	(NA)	ND ND	0.00419	ND ND	0.00435	ND	0.0046	ND ND	0.00396	ND	0.0045	ND	0.0051	ND	0.00454	ND	0.00455	ND	0.00392	ND	0.0047	ND	0.00451	ND	0.00442
Methoxychlor	280	5200	50	ND	0.00419	ND	0.00435	ND	0.0046	ND I	0.00396	ND ND	0.0045	ND	0.0051	ND	0.00454	ND	0.00455	ND	0.00392	ND	0.0047	ND	0.00451	ND	0.00442
alpha-Chlordane	(NA)	(NA)	(NA)	ND	0.00419	ND	0.00435	ND	0.0046	ND	0.00396	ND	0.0045	ND ND	0.0051	ND ND	0.00454	ND	0.00455	ND	0.00392	ND	0.0047	ND	0.00451	ND	0.00442
gamma-Chlordane	(NA)	(NA)	(NA)	ND	0.00419	ND	0.00435	ND	0.0046	ND	0.00396	ND ND	0.0045	ND ND	0.0051	ND ND	0.00454	ND ND	0.00455	ND ND	0.00392	ND	0.0047	ND	0.00451	ND	0.00442
Toxaphene	0.1	0.2	50	ND	0.021	ND	0.022	ND	0.023	ND	0.020	ND	0.023	ND	0.025	ND ND	0.023	ND	0.023	ND	0.00392	ND ND	0.0047	ND	0.00451	ND NO	0.00442
Metals (ppm)							1					_	_	1		1	0.020	-110	0.023	NO	0.020	ND	0.023	ND	0.023	ND	0.022
Aluminum	(NA)	(NA)	(NA)	11400	458	4960	12.6	7580	12.0	3560	11.7	8520	12.4	10900	12.9	12200	476	6090	12.1	7490	11.0	8590	12.7	19200	516	5830	
Antimony	14	340	NA NA	ND	1.14	ND	1.26	ND	1.20	ND	1.17	ND	1.24	ND	1.29	ND	1.19	ND	1.21	ND	1.10	ND	1.27	ND ND	1.29	ND ND	11.8
Arsenic Barium	20	20	NA	18.3	1.14	21.3	1.26	1.80	1.20	ND	1.17	ND	1.24	16.7	1.29	ND	1.19	1.67	1.21	3.76	1.10	34.5	1.27	4.63	1.29	16.9	1.18
Beryllium	700	47000	NA NA	123	11.4	60.5	12.6	28.6	12.0	14.6	11.7	ND	12.4	99.7	12.9	17.0	11.9	31.9	12.1	73.6	11.0	445	12.7	103	12.9	60.9	11.8
Cadmium	39	100	NA NA	3.45 0.864	0.572	ND	0.630	ND	0.600	ND	0.585	ND	0.620	ND	0.643	ND	0.595	ND	0.605	ND	0.551	ND	0.635	0.830	0.645	ND	0.590
Calcium	(NA)	(NA)	(NA)	12100	0.286 57.2	7150	0.315 63.0	ND 693	0.300	ND	0.293	ND	0.310	0.709	0.321	ND	0.298	ND	0.303	0.310	0.275	1.23	0.318	ND	0.323	0.567	0.295
Chromium	(NA)	(NA)	(NA)	62.4	2.29	26.8	2.52	9.97	60.0 2.40	6.42	58.5	568	62.0	16900	64.3	830	59.5	1030	60.5	3040	55.1	3180	63.5	7940	64.5	4070	59.0
Cobalt	(NA)	(NA)	(NA)	10.6	2.29	20.4	2.52	5.22	2.40	2.78	2.34	9.43	2.48	27.1 9.01	2.57	14.7	2.38	9.36	2.42	14.0	2.20	19.3	2.54	23.2	2.58	15.9	2.36
Copper	600	600	(NA)	154	2.29	126	2.52	14.5	2.40	6.61	2.34	11.4	2.48	123	2.57	4.55 11.1	2.38	5.36	2.42	5.36	2.20	12.7	2.54	14.2		6.63	2.36
Iron	(NA)	(NA)	(NA)	32400	28.6	100000	1260	15200	30.0	5930	29.3	13600	31.0	19600	32.1	15100	2.38	10.4	30.3	22.0 9700	2.20	114	2.54	26.1	2.58	175	2.36
Lead	400	600	NA	286	0.572	132	0.630	4.84	0.600	2.59	0.585	5.42	0.620	163	0.643	8.31	0.595	4.51	0.605	12.2	27.5 0.551	50900 514	31.8	29400		21600	29.5
Magnesium	(NA)	(NA)	(NA)	5300	57.2	1520	63.0	3160	60.0	2800	58.5	3450	62.0	6480	64.3	3660	59.5	2700	60.5	5540	55.1	1540	0.635 63.5	15.4 10100	0.645	287	0.590
Manganese	(NA)	(NA)	(NA)	459	1.14	742	1.26	189	1.20	149	1.17	108	1.24	348	1.29	105	1.19	194	1.21	395	1.10	490	1.27	676	1,29	1440	59.0
Mercury Nickel	14	270	NA NA	1.46	0.071	0.638	0.078	0.016	0.015	ND	0.015	0.030	0.015	0.427	0.016	0.062	0.015	ND	0.015	ND	0.014	0.676	0.016	0.029	<del></del>	0.357	1.18 0.015
Potassium	250	2400	NA (NA)	46.8	1.14	43.3	1.26	11.7	1.20	6.00	1.17	12.0	1.24	23.6	1.29	14.3	1.19	12.4	1.21	11.4	1.10	22.9	1.27	29.2		19.5	1.18
Selenium	(NA) 63	(NA) 3100	(NA) NA	1830	57.2	367	63.0	751	60.0	968	58.5	702	62.0	1190	64.3	778	59.5	697	60.5	2360	55.1	489	63.5	2500	64.5	476	59.0
Silver	110	4100	NA NA	ND ND	2.29 0.572	ND I	2.52		2.40	ND	2.34	ND	2.48	ND	2.57	ND	2.38	ND		ND	2.20	ND	2.54	ND		ND	2.36
Sodium	(NA)	(NA)	(NA)	478	114	ND 322	0.630 126	ND ND	0.600	ND 150	0.585	ND	0.620	ND	0.643		0.595	ND	0.605	ND	0.551	ND	0.635	ND		ND	0.590
Thallium	2	2	NA NA	0.425	0.114	0.376	0.126	ND ON	120 0.120	150 ND	117	156	124	413	129	160	119	169		319	110	247	127	339	129	672	118
Vanadium	370	7100	NA NA	34.0	2.29	47.6		11.3		9.06	0.117 2.34	ND 11.2	0.124 2.48	0.329 39.6	0.129	ND 102	0.119	ND		0.130	0.110	1.07	0.127	ND		0.403	0.118
Zinc	1500	1500	NA	364	2.29	117		30.9		17.0	2.34	29.6	2.48	160	2.57	19.3 41.0	2.38	11.0		21.9	2.20	28.3	2.54	27.6		19.3	2.36
General Analytical							<del>                                     </del>	+					2.40	100	2.31	41.0	2.38	26.5	2.42	42.1	2.20	475	2.54	68.4	2.58	184	2.36
Cyanide, Total-ppm	(NA)	(NA)	(NA)	ND	1.14	ND	1.25	ND	1.20	ND	1.18	ND	1.23	ND	1.28	ND	1.20	NO	+ + + +	NO	+		1		+		
Ammonia-ppm	(NA)	(NA)	(NA)	ND	0.229	0.627	0.249		0.240	ND	0.236	ND	0.245	0.336	0.256	0.865	0.240	ND ND		ND ND	1.11 0.221	ND ND	1.26	ND	1.29	ND	1.19
NOTES:															1 3.200	2.300	9.270		V.Z.T1	NO	Q.ZZ1	ND	0.252	ND	0.259	ND	0.238

NOTES:

ND = Analyzed for but Not Detected at the MDL

J = The concentration was detected at a value below the MDL

RDC SCC = NJDEP Residential Direct Contact Soil Cleanup Criteria

NRDC SCC = NJDEP Non-Residential Direct Contact Soil

Cleanup Criteria
IGW SCC = NJDEP Impact to Groundwater Soil Cleanup Criteria
Concentration in BOLD exceed the SCC

Table 2

#### Three Y, LLC Properties, 163 Old River Road Edgewater, NJ

Client ID:	NJDEP	NJDEP	NJDEP	1	3Y-3B	T	3Y-3C	3	Y-3D	т—	3Y-4A	т	Y-4B	1 3	V 40		V (5)					_						
Sample Depth (ft bg):	RDC	NRDC	IGW		6-6.5		17-17.5	1	I-34.5	1	5/2-2.5 (VOs)	1	6-6.5	1	Y-4C -14,5		Y-4D 1-44.5	I	3Y-5A 4-4.5(VOs)		3Y-5B	1	3Y-5C		3Y-5	4		Y-5R
Lab ID:	SCC	SCC	scc	0	02111-003	1 0	2111-004		52-001		1940-001	3	40-002	ı	40-003		40-004		4-4.5(VOS) 152-002	٠,	6-6.5	1 .	16-16.5		38-38	- 1		-17.5
- Date Sampled:			ľ		3/7/05		3/7/05	3	/8/ <b>0</b> 5		3/2/05		/2/05	I .	2/05		/2/05		152-002 3/8/05		2152-003	, ,	2152-004	ľ	02152-	1		52-006
Matrix:			<u> </u>		Soil		Soil	!	Soil	1	Soil	1	Soil		Soil	£	Soil	1	Soil	Ĭ	3/8/05 Soil		3/8/05 Soil		3/8/0			8/05
PCB's (ppm)			1					$\neg \neg$	1		1	7 7					1		3	<del>                                     </del>	1 1	<del></del>	3011		Soil	<b>-</b>		Soil
Aroclor-1016	0.49	2	50	ND	0.019	ND	0.018	ND	0.018	ND	0.020	ND	0.019	ND	0.018	ND	0.018	ND	0.015	ND	0.023	ND	0.0	124 N	-	0.017		
Aroclor-1221	0.49	2	50	ND	0.019	ND	0.018	ND	0.018	ND	0.020	ND	0.019	ND	0.018	ND	0.018	ND	0.015	ND	0.023	ND	0.0		D D	0.017	ND	0.032
Aroclor-1232	0.49	2	50	ND	0.019	ND	0.018	ND	0.018	ND	0.020	ND	0.019	ND	0.018	ND	0.018	ND	0.015	ND	0.023	ND	6.0		<del>5    </del>	0.017	ND ND	0.032
Aroclor-1242	0.49	2	50	ND	0.019	ND	0.018	ND	0.018	ND	0.020	ND	0.019	ND	0.018	ND	0.018	ND	0.015	ND	0.023	ND	0.0			0.017	ND ND	0.032
Aroclor-1248 Aroclor-1254	0.49	2	50	ND	0.019	ND	0.018	ND	0.018	ND	0.020	ND	0.019	ND	0.018	ND	0.018	ND	0.015	ND	0.023	ND	0.0			0.017	ND	0.032
Aroclor-1260	0.49	2 2	50 50	ND ND	0.019	ND	0.018	ND	0.018	ND	0.020	ND	0.019	ND	0.018	ND	0.018	ND	0.015	ND	0.023	ND	0.0			0.017	ND	0.032
Pesticides (ppm)	0.43	<del></del>	30	ND	0.019	ND	0.018	ND	0.018	ND	0.020	ND	0.019	ND	0.018	ND	0.018	ND	0.015	ND	0.023	ND	0.0			0.017	ND	0.032
alpha-BHC	(NA)	(NA)	(NA)	ND	0.00468	ND	0.00440	110	0.00/04			+_+													77			
beta-BHC	(NA)	(NA)	(NA)	ND	0.00468	ND	0.00449	ND ND	0.00461	ND	0.00487		0.00476	ND	0.0045	ND	0.00447	ND	0.00368	ND	0.00578	ND	0.00	0852 N		0.00419	ND	0.00791
gamma-BHC	0.52	2.2	50	ND	0.00468	ND	0.00449	ND	0.00461	ND ND	0.00487	ND	0.00476	ND	0.0045	ND	0.00447	ND	0.00368	ND	0.00578	ND	0.00	1852 N	D	0.00419	ND	0.00791
delta-BHC	(NA)	(NA)	(NA)	ND	0.00468	ND	0.00449	ND	0.00461	ND ND	0.00487	ND ND	0.00476	ND	0.0045	ND	0.00447	ND	0.00368	ND	0.00578	ND	0.00			0.00419	ND	0.00791
Heptachlor	0.15	0.65	50	ND	0.00468	ND	0.00449	ND	0.00461	ND	0.00487	ND ND	0.00476	ND ND	0.0045	ND	0.00447	ND ND	0.00368	ND	0.00578	ND	0.00				ND	0.00791
Aldrin	0.04	0.17	50	ND	0.00468	ND	0.00449	ND	0.00461	ND	0.00487	ND	0.00476	ND	0.0045	ND ND	0.00447	ND ND	0.00368	ND	0.00578	ND	0.00				ND	0.00791
Heptachlor epoxide	(NA)	(NA)	(NA)	ND	0.00468	ND	0.00449	ND	0.00461	ND	0.00487	ND I	0.00476	ND	0.0045	ND .	0.00447	ND ND	0.00368	ND ND	0.00578	ND	0.00				ND	0.00791
Endosulfan I	(NA)	(NA)	(NA)	ND	0.00468	ND	0.00449	ND	0.00461	ND	0.00487	ND I	0.00476	ND	0.0045	ND	0.00447	ND ND	0.00368	ND ND	0.00578	ND ND	0.00			0.00419	ND	0.00791
4,4'-DDE	2	9	50	ND	0.00468	ND	0.00449	ND	0.00461	ND	0.00487	ND	0.00476	ND	0.0045	ND	0.00447	ND	0.00368	ND	0.00578	ND	0.00				ND	0.00791
Dieldrin	0.042	0.18	50	ND	0.00468	ND	0.00449	ND	0.00461	ND	0.00487	ND	0.00476	ND	0.0045	ND	0.00447	ND	0.00368	ND	0.00578	ND ND	0.00				ND DA	0.00791
Endrin	17	310	50	ND	0.00468	ND	0.00449	ND	0.00461	ND	0.00487	ND	0.00476	ND	0.0045	ND	0.00447	ND	0.00368	ND	0.00578	ND	0.00				ND	0.00791
Endosulfan II 4.4'-DDD	(NA)	(NA)	(NA)	ND	0.00468	ND	0.00449	ND	0.00461	ND	0.00487	ND	0.00476	ND	0.0045	ND	0.00447	ND	0.00368	ND	0.00578	ND	0.00	-			ND ON	0.00791
Endrin aldehyde	(NA)	12	50	ND	0.00468	ND	0.00449	ND	0.00461	ND	0.00487	ND	0.00476	ND	0.0045	ND	0.00447	ND	0.00368	ND	0.00578	ND	0.00				ND	0.00791
Endosulfan sulfate	(NA)	(NA) (NA)	(NA)	ND ND	0.00468	ND	0.00449	ND	0.00461	ND	0.00487	ND	0.00476	ND	0.0045	ND	0.00447	ND	0.00368	ND	0.00578	ND	0.00				ND	0.00791
4.4'-DDT	2	9	500	ND	0.00468	ND D	0.00449	ND	0.00461	ND	0.00487	ND	0.00476	ND	0.0045	ND	0.00447	ND	0.00368	ND	0.00578	ND	0.00	852 NI	5 1 7	0.00419	ND	0.00791
Endrin ketone	(NA)	(NA)	(NA)	ND	0.00468	ND ND	0.00449	ND   ND	0.00461 0.00461	ND ND	0.00487	ND	0.00476	ND	0.0045	ND	0.00447	ND	0.00368	ND	0.00578	ND	0.00	852 NO		0.00419	ND	0.00791
Methoxychior	280	5200	50	ND	0.00468	ND ND	0.00449	ND	0.00461	ND	0.00487	ND ND	0.00476	ND	0.0045	ND	0.00447	ND	0.00368	ND	0.00578	ND	0.00			0.00419	ND	0.00791
alpha-Chlordane	(NA)	(NA)	(NA)	ND	0.00468	ND	0.00449	ND	0.00461	ND	0.00487	ND ND	0.00476	ND ND	0.0045	ND	0.00447	ND	0.00368	_ND	0.00578	ND	0.00			0.00419	ND	0.00791
gamma-Chlordane	(NA)	(NA)	(NA)	ND	0.00468	ND	0.00449	ND	0.00461	ND	0.00487	ND ND	0.00476	ND	0.0045	ND ND	0.00447	ND ND	0.00368	ND	0.00578	ND	0.00				ND	0.00791
Toxaphene	0.1	0.2	50	ND	0.023	ND	0.023	ND	0.023	ND	0.024	ND	0.024	ND	0.023	ND	0.022	ND ND	0.00368	ND	0.00578	ND	0.00				ND	0.00791
Metals (ppm)													+		1 0.020	<del></del>	0.022	110	0.010	ND	0.029	ND	0.0	43 NC	<del>'    </del>	0.021	ND	0.040
Aluminum	(NA)	(NA)	(NA)	2140	12.8	7630	12.2	12100	12.4	10900	13.1	14200	502	9800	12.3	4140	11.8	13200	268	1540	17.2	8750	23	0 733		12.0 9	VE 40	1 200
Antimony	14	340	NA NA	ND	1.28	ND	1.22	ND	1.24	ND	1.31	ND	1.26	ND	1.23	ND	1.18	ND	1.07	ND	1.72	ND	2.3				9510 ND	20.3
Arsenic Barium	20	20	NA NA	5.04	1.28	3.27	1.22	8.51	1.24	6.43	1.31	8.31	1.26	2.25	1.23	5.10	1.18	3.50	1.07	2.84	1.72	5.49	2.3				2.07	2.03
Beryllium	700	47000 2	NA NA	27.8	12.8	44.0	12.2	79.9	12.4	78.5	13.1	90.7	12.6	31.0	12.3	21.9	11.8	32.8	10.7	30.5	17.2	ND	23.				21.6	20.3
Cadmium	39	100	NA NA	ND ND	0.640 0.320	ND 0.410	0.608	1.03	0.618	ND	0.653	ND	0.628	ND	0.615	ND	0.590	ND	0.535	ND	0.858	ND	1.1	5 NC	7 1		ND	1.02
Calcium	(NA)	(NA)	(NA)	13900	64.0	880	60.8	0.490 4860	0.309 61.8	0.451 11600	0.326	1.17	0.314	ND	0.308	ND	0.295	ND	0.268	ND	0.429	ND	0.5	75 0.42	27	0.300	ND	0.508
Chromium	(NA)	(NA)	(NA)	8.46	2.56	12.5	2.43	21.5	2.47	26.7	65.3 2.61	19700 20.3	62.8	938		2050	59.0	6010	53.5	261000	2150	2740	11:		0	60.0 1	320	102
Cobalt	(NA)	(NA)	(NA)	2.96	2.56	15.3	2.43	14.8	2.47	11.0	2.61	8.80	2.51	7.21	<del></del>	9.17 3.47	2.36	16.2	2.14	5.28	3.43	16.3	4.6				17.0	4.06
Copper	600	600	(NA)	17.9	2.56	14.6	2.43	42.6	2.47	85.5	2.61	57.1	2.51	20.1		20.4	2.36	8.02 38.7	2.14	ND ND	3.43	7.63	4.6				5.25	4.06
Iron	(NA)	(NA)	(NA)	5940	32.0	14200	30.4	18900	30.9	17900	32.6	19200	31.4	19700		6470	29.5	13800	26.8	1340	3.43 42.9	8.19 16400	4.6 57.				11.0	4.06
Lead	400	600	NA	31.8	0.640	8.14	0.608	42.7	0.618	117	0.653	501	0.628	22.4		10.9	0.590	24.4	0.535	32.1	0.858	7.12	1.1				3400	50.8
Magnesium	(NA)	(NA)	(NA)	716	64.0	3510	60.8	8490	61.8	9410	65.3	6770	62.8	3740		2930	59.0	4820	53.5	4250	85.8	3400	119				440	1.02
Manganese Mercury	(NA)	(NA)	(NA)	73.1	1.28	123	1.22	590	1.24	352	1.31	264	1.26	414	1.23	175	1.18	256	1.07	27.6	1.72	149	2.3				156	2.03
Nickel	14 250	270	NA NA	0.231	0.016	0.020	0.015	ND	0.016	0.168	0.016	0.138	0.016	0.023	0.015	ND	0.015	0.056	0.014	0.316	0.022	0.034	0.02				.030	0.025
Potassium	(NA)	(NA)	(NA)	7.63 211	1.28 64.0	16.0 870	1.22	25.0	1.24	82.7	1.31	29.4	1.26	16.0		6.21	1.18	18.8	1.07	4.01	1.72	14.8	2.3	0 10.7	o		4.1	2.03
Selenium	63	3100	NA NA	ND	2.56	ND ND	60.8 2.43	3100	61.8	1730	65.3	1190	62.8	867	61.5	1620	59.0	457	53.5	ND	85.8	1610	118	5 350	0	60.0 1	470	102
Silver	110	4100	NA	ND	0.640	ND	0.608	ND ND	0.618	ND ND	2.61 0.653	ND ND	2.51 0.628	ND ND	2.46		2.36	ND	2.14	ND	3.43	ND	4.6				ND	4.06
Sodium	(NA)	(NA)	(NA)	230	128	150	122	728	124	458	131	1230	126	168	0.615 123		0.590	ND D72	0.535	ND	0.858	ND	1.1				ND	1.02
Thallium	2	2	NA	0.155	0.128	ND		0.453		0.154	0.131	ND ND	0.126	ND I	0.123	184 NO	0.118	972 ND	107	ND ND	172	1290	230				160	203
Vanadium	370	7100	NA	7.42	2.56	14.6		38.8		32.1	2.61	22.3		14.0	2.46		<del></del>	ND 22.2	0.107 2.14	ND 4.92	0.172	ND 10.7	0.23				ND	0.203
Zinc	1500	1500	NA	25.1	2.56	41.2		170	2.47	112	2.61	464		60.2	2.46			37.2	2.14	8.00	3.43	19.7 37.8	4.60				8.1	4.06
General Analytical													1	_	1 1				1	0.00	3.43	37.0	4.00	35.3	<del>`                                    </del>	2.40 3	5.5	4.06
Cyanide, Total-ppm	(NA)	(NA)	(NA)	4.73	1.28	ND	1.22	ND	1.25	ND	1.29	ND	1.25	ND	1.23	ND	1.18	ND	1.07	282	17.3	3.62	2.29	9 ND	+	1 20 1	un l	<del> </del>
Ammonia-ppm	(NA)	(NA)	(NA)	ND	0.256	0.263	0.243	0.300	0.250	ND	0.257	ND	0.251	ND	0.247			0.556									ND 53	2.04
NOTES:	V-7	1,1	11-1	HD	1 0.250	0.203	0.243	0.300	0.250	MD	0.257	ND	0.251	ND	0.247	ND [	0.237	0.556	0.214	ND	0.346	2.16	0.45	8 ND			.53	0.40

NOTES: ND = Analyzed for but Not Detected at the MDL

ND = Analyzed for but Not Detected at the MDL
J = The concentration was detected at a value below the MDL
RDC SCC = NJDEP Residential Direct Contact Soil Cleanup Criteria
NRDC SCC = NJDEP Non-Residential Direct Contact Soil
Cleanup Criteria
IGW SCC = NJDEP Impact to Groundwater Soil Cleanup Criteria
Concentration in BOLD exceed the SCC

Table 2

Three Y, LLC Properties, 163 Old River Road Edgewater, NJ

Client ID:	NJDEP	NJDEP	NJDEP	1	3Y-6	] 3	Y-7	3	Y-8	Т ;	Y-9	·	Y-10	1 -	3Y-11	T -	V 40	<del></del>	V 45								
Sample Depth (ft bg):	RDC	NRDC	IGW		6.5/7		.5/7		.5/7	1	.5/7	ł	2/2.5		3Y-11 2/2.5		Y-12		Y-13	1	Y-14A		3Y-14C	] 3	Y-14A	3	3Y-15
Lab ID:	SCC	SCC	SCC	08	85-009		85-010		34-001		.577 B5-005		22.5 185-008				V2.5		<i>y</i> 2.5		0/0.5	1 1	17/17.5		4/4.5	1 4	5/5.5
Date Sampled:				08/	04/2005		4/2005		5/2005		4/2005		04/2005		185-004		85-006		85-007		185-001		185-002	08	185-003	082	234-002
Matrix:					Soil	1	Soil		Soil	1	arzous Soil		Soil		04/2005		4/2005		4/2005	i i	04/2005	08.	/04/2005	08.	04/2005	08/0	05/2005
VOCs (ppm)				Conc	Q MDL		O MDI	Conc		Conc		_		_	Soil		Soil	_	Soil	_	Soil		Soil	<u>L</u> .	Soil	. :	Soil
Chloromethane	520	1000	10	ND	0.953	ND	0.778		0.672	ND	0.821	Conc	Q MDL 0.752	Conc	Q MDL	Conc		Conc		1	Q MDL	. Conc	Q MDL	Conc	Q MDL	Conc	Q MDL
Vinyl chloride	2	7	10	ND	0.953	ND	0.778		0.672	ND	0.821	ND	0.752	ND ND	0.699		0.741	ND	0.757	<u> </u>	<b>→</b> ~	ND	0.489		0.476	ND	0.530
Bromomethane	79	1000	1	ND	0.953	ND	0.778		0.672	ND	0.821	ND	0.752		0.699		0.741	ND	0.757	1-~	1-	ND	0.489		0.476	ND	0.530
Chloroethane	(NA)	(NA)	(NA)	ND	0.953	ND	0.778	ND	0.672	ND	0.821	ND	0.752	ND ND	0.699		0.741	ND	0.757	1-1		ND	0.489	ND	0.476	ND	0.530
Trichlorofluoromethane	(NA)	(NA)	(NA)	ND	0.953	ND	0.778		0.672	ND	0.821	ND	0.752		0.699		0.741	NĎ	0.757	1~		ND	0.489	ND	0.476	ND	0.530
Acrolein	(NA)	(NA)	(NA)	ND	4.76	ND	3.89	ND	1.34	ND	1.64	ND		ND	0.699		0.741	ND	0.757	-		ND	0.489	ND	0.476	ND	0.530
1,1-Dichloroethene	8	150	10	ND	0.953	ND	0.778	ND	0.672	ND	0.821	ND	0.752	ND	1.40		3.71	ND	1.51	1-1		ND	0.978	ND	0.953	ND	1.06
Methylene chloride	49	210	1	ND	0.953	ND	0.778	ND	0.672	ND	0.821	ND		ND	0.699		0.741	ND	0.757	1	<u> </u>	ND	0.489	ND	0.476	ND	0.530
Acrylonitrile	1	5	1	ND	4.76	ND	3.89	ND	1.34	ND ND	1.64	ND	0.752	ND	0.699		0.741	ND	0.757		ــــــــــــــــــــــــــــــــــــــ	ND	0.489	ND	0.476	ND	0.530
trans-1,2-Dichloroethene	1000	1000	50	ND	0.953	ND	0.778	ND	0.672	0.222	0.821	ND	1.50 0.752	ND NO	1.40	ND	3.71	ND	1.51	-	<u> </u>	ND	0.978	ND	0.953	ND	1.06
1,1-Dichloroethane	570	1000	10	ND	0.953	ND	0.778		0.672	ND I	0.821	ND	0.752	ND	0.699		0.741	ND	0.757	~		ND	0.489	ND	0.476	ND	0.530
Chloroform	19	28	1	ND	0.953	ND	0.778	ND	0.672	ND	0.821	ND	0.752	ND ND	0.699		0.741	ND	0.757	-		ND	0.489	ND	0.476	ND	0.530
1,1,1-Trichloroethane	210	1000	50	ND	0.953	ND	0.778	ND	0.672	ND	0.821	ND		ND	0.699		0.741	ND	0.757	- 1		ND	0.489	ND	0.476	ND	0.530
Carbon tetrachloride	2	4	1	ND	0.953	ND	0.778	ND	0.672	ND	0.821	ND	0.752	ND	0.699		0.741	ND	0.757		<u> </u>	ND	0.489	ND	0.476	ND	0.530
1,2-Dichloroethane (EDC)	6	24	1	ND	0.953	ND	0.778	ND	0.672	ND	0.821	ND		ND	0.699		0.741	ND	0.757	1-1		ND	0.489	ND	0.476	ND	0.530
Benzene	3	13	1	0.882	0.476	5.81		0.248	0.672	0.183	0.821	ND	0.752	ND	0.699	_	0.741	ND	0.757	-		ND	0.489	ND	0.476	ND	0.530
Trichloroethene	23	54	1	ND	0.953	ND ND		0.171	0.672	ND .	0.821	ND	0.752	35.4	0.699		0.371	5.71	0.757	-	<u> </u>	ND	0.489	0.336	J 0.476	ND	0.530
1,2-Dichloropropane	10	43	NA	ND	0.953	ND	0.778	ND	0.672	ND	0.821	ND	0.752	ND	0.699		0.741	ND	0.757	-	_ ~	ND	0.489	ND	0.476	ND	0.530
Bromodichloromethane	11	46	1	ND	0.953	ND	0.778	ND	0.672	ND	0.821	ND	0.752	ND ND	0.699	ND	0.741	ND	0.757	~	<u> </u>	ND	0.489	ND	0.476	ND	0.530
2-Chloroethyl vinyl ether	(NA)	(NA)	(NA)	ND	0.953	ND	0.778	ND	0.672	ND	0.821	ND	0.752	ND	0.699	ND	0.741	ND	0.757	-	<u> </u>	ND	0.489	ND	0.476	ND	0.530
cis-1,3-Dichloropropene	(NA)	(NA)	(NA)	ND	0.953	ND	0.778	ND	0.672	ND	0.821	ND	0.752	ND	0.699	ND	0.741	ND	0.757	~ 1	<del>  ~</del>	ND	0.489	ND	0.476	ND	0.530
Toluene	1000	1000	500	ND	0.953	ND	0.778	ND	0.672	ND	0.821	ND	0.752	0.747	0.699	ND D	0.741	ND	0.757		<u> </u>	ND	0.489	ND	0.476	ND	0.530
trans-1,3-Dichloropropene	(NA)	(NA)	(NA)	ND	0.953	ND	0.778	ND	0.672	ND	0.821	ND	0.752	ND	0.699	3.87	0.741	0.549	0.757			ND	0.489	ND	0.476	ND	0.530
1,1,2-Trichloroethane	22	420	1	ND	0.953	ND	0.778	ND	0.672	ND	0.821	ND	0.752	ND	0.699	ND	0.741	ND	0.757	~	<b>↓</b> ~	ND	0.489	ND	0.476	ND	0.530
Tetrachloroethene	4	6	1	ND	0.953	ND	0.778	ND	0.672	ND	0.821	ND	0.752	ND	0.699	ND ND	0.741	ND	0.757			ND	0.489	ND	0.476	ND	0.530
Dibromochloromethane	110	1000	1	ND	0.953	ND	0.778	ND	0.672	ND	0.821	ND	0.752	ND	0.699		0.741	ND	0.757	~	<del>  -</del>	ND	0.489	ND	0.476	ND	0.530
Chlorobenzene	37	680	1	ND	0.953	ND	0.778	ND	0.672	ND	0.821	ND	0.752	ND	0.699	ND ND	0.741	ND	0.757	~	<del>  ~</del>	ND	0.489	ND	0.476	ND	0.530
Ethylbenzene	1000	1000	100	1.57	0.953	1.21	-	0.165 J	0.672	ND	0.821	ND	0.752	1.46	0.699	5.14	0.741	ND 1	0.757	~	<del>-</del> -	ND	0.489	ND	0.476	ND	0.530
Total Xylenes	410	1000	67	ND	0.953	2.64	0.778	ND	0.672	ND	0.821	ND	0.752	3.25	0.699	4.92	0.741	1.09	0.757	~		ND	0.489	ND	0.476	ND	0.530
Bromoform	86	370	1	ND	0.953	ND	0.778	ND	0.672	ND	0.821	ND	0.752	ND ND	0.699	ND	0.741	2.05 ND	0.757	~	<del>-</del> -	ND	0.489	ND	0.476	ND	0.530
1,1,2,2-Tetrachloroethane	34	70	1	ND	0.953	ND	0.778	ND	0.672	ND	0.821	ND	0.752	ND	0.699	ND	0.741		0.757	-1	<u> </u>	ND	0.489	ND	0.476	ND	0.530
1,3-Dichlorobenzene	5100	10000	100	ND	0.953	ND	0.778	ND	0.672	ND	0.821	ND	0.752	ND	0.699	ND ND	0.741	ND ND	0.757		<del>  ~</del>	ND	0.489	ND	0.476	ND	0.530
1,4-Dichlorobenzene	570	10000	100	ND	0.953	ND	0.778	ND	0.672	ND	0.821	ND	0.752	ND	0.699	ND	0.741	ND	0.757		<del>  -</del>	ND	0.489	ND	0.476	ND	0.530
1,2-Dichlorobenzene	5100	10000	50	ND	0.953	ND	0.778	ND	0.672	ND	0.821	ND	0.752	ND	0.699	ND	0.741	ND ND	0.757	<u></u>	<b>↓</b> ~	ND	0.489	ND	0.476	ND	0.530
TOTAL VO's:	NA	NA	NA	2.45		9.66		0.584 J	1	0.405 J	1 2.22.	ND	10.752	40.9	0.039	34.9	0.741	9.40 J	U./5/	-+	+-	ND	0.489	ND	0.476	ND	0.530
TOTAL TIC's:	NA	NA	NA	178		110		2.63		18.5		ND	1 -1	5.20	+-	88.5	<del>                                     </del>	9.40 J	<del>  </del>		-	ND	┵	0.336	J	ND	
TOTAL VO's & TIC's:	NA	NA	NA	180	T 1	120		3.21 J		18.9 J	<del>                                     </del>	ND	+	46.1	+	123	<del> </del>		1 1		<del>  -</del> -	ND	-	14.5		ND	
Seneral Analytical					1		T		1		╁┈╌┼	<del>'''</del>	1	40.1	+	123	+	19.3 J	<del>                                     </del>		<del>  -</del>	ND		14.8	J	ND	
Ammonia-ppm	(NA)	(NA)	(NA)	1.50	0.343	0.984	0.249	ND	0.236	0.997	0.243	ND	0.259	0.411	0.257	ND	0.237	0.500	0.000			<del>   </del>	+				
	o MDI										1.5.6.70	.,,,	1 0.235	0.411	10.237	MD	0.23/	0.568	0.260	ND	0.211	ND	0.242	0.378	0.244	ND	0.246

ND = Analyzed for but Not Detected at the MDL J = The concentration was detected at a value below the MDL Concentrations in **BOLD** exceed the SCC.

Table 2

Three Y, LLC Properties, 163 Old River Road Edgewater, NJ

1000 7 1000 (NA) (NA) (NA)	0 10	08 08 Conc	4/4.5 3234-003 3/05/2005 Soil	08	5/5.5 234-004 05/2005	082	5/5.5 234-005		¥6.5	ì	5.5/6	6	V6.5	5	5.5		6.6	1 6	.5/7		/-25 /2.8		3Y-27
1000 7 1000 (NA) (NA) (NA)	0 10	08 Conc	/05/2005 Soil		05/2005		234-005	495				, ,			J.J		0.0		i, uj f				6/6.5
7 1000 (NA) (NA) (NA) 150	10	Conc	Soil	08/		00/		123	80-001	12	580-002	125	80-003	1250	10-004	1258	0-005	125	80-006	_	80-007		580-008
7 1000 (NA) (NA) (NA) 150	10			1			05/2005		21/2005	11	21/2005	11/2	1/2005	11/2	1/2005	11/21	1/2005	11/2	1/2005	11/2	1/2005		21/2005
7 1000 (NA) (NA) (NA) 150	10		IOI MOI	_	Soil		Soif	1	Soi!		Soil		<u>Soi</u> l	s	oil	s	ioil		Soil	S	ioil		Soil
7 1000 (NA) (NA) (NA) 150	10			Conc		Conc	Q MDL	Conc	Q MDL	Conc	Q MDI	Conc	Q MDL	Conc	MDL	Conc C	MDL	Conc	Q MDL	Conc	2 MDL		Q MD
1000 (NA) (NA) (NA) 150		ND	0.48		0.495		0.502	ND	0.895	ND	0.90	3 ND	0.594	ND	0.818	ND	1.08	ND	0.608	ND I	0.787	ND	0.64
(NA) (NA) (NA) 150		ND	0.489		0.495	ND	0.502	ND	0.895	ND	0.90	3 ND	0.594	ND	0.818	ND	1.08	ND	0.608	ND	0.787	ND	0.6
(NA) (NA) 150		ND	0.489		0.495	ND	0.502	ND	0.895	ND	0.90	3 ND	0.594	ND	0.818	ND	1.08	ND	0.608	ND	0.787	ND	0.6
(NA) 150			0.489	ND	0.495	ND	0.502	ND	0.895	ND	0.90	3 ND	0.594	ND	0.818	ND	1.08	ND	0.608	ND	0.787	ND	0.6
150	7		0.489	ND ND	0.495	ND	0.502	ND	0.895	ND	0.90	3 ND	0.594	ND	0.818	ND	1.08	ND	0.608	ND	0.787	ND	0.6
	) (NA	ND	0.976	ND	0.990	ND	1.00	ND	4.48	ND	1.81	ND	1.19	ND	1.64	ND	5.39	ND	1.22	ND	3.94	ND	
	10	ND	0.489	ND ND	0.495	ND	0.502	ND	0.895	ND	0.90		0.594	ND	0.818	ND	1.08	ND	0.608	ND	0.787	ND ND	1.3
210	1	ND	0.489	ND	0.495	ND	0.502	ND	0.895	ND	0.90		0.594	ND	0.818	ND	1.08	ND I	0.608	ND	0.787	ND	0.6
5	1	ND	0.978	ND	0.990	ND	1.00	ND	4.48	ND	1.81	ND	1.19	ND	1.64	ND	5.39	ND	1.22	ND	3.94		0.6
1000		ND	0.489	ND	0.495	ND	0.502	ND	0.895	ND	0.90		0.594	ND	0.818	ND ND	1.08	ND	0.608			ND	1.3
1000	0 10	ND	0.489	ND	0.495	ND	0.502	ND	0.895	ND	0.90		0.594	ND	0.818	ND	1.08	ND	0.608	ND	0.787	ND	0.6
28	1	ND	0.489	ND	0.495	ND	0.502	ND	0.895	ND	0.90		0.594	ND	0.818	ND	1.08	ND	0.608	ND	0.787	ND	0.6
1000	0 50	ND	0.489	ND	0.495	ND	0.502	ND	0.895	ND	0.903		0.594	ND	0.818	ND	1.08	ND ND		ND	0.787	ND	0.6
4	1	ND	0.489	ND	0.495	ND	0.502	ND	0.895	ND	0.90		0.594	ND	0.818	ND			0.608	ND	0.787	ND	0.6
24	1	ND	0.489	ND	0.495	ND	0.502	ND	0.895	ND	0.903	ND	0.594	ND ND	0.818	ND ND	1.08	ND	0.608	ND	0.787	ND	0.6
13	1	ND	0.489	ND	0.495	ND	0.502	0.663	0.448	1.06	0.903		J 0.594	0.592	0.818		1.08	ND	0.608	ND	0.787	ND	0.6
54	1	ND	0.489	ND	0.495	ND	0.502	ND	0.895	ND	0.903	ND ND	0.594	ND		ND	0.539	ND	0.608	31.3	0.394	ND	0.6
43	NA.	ND	0.489	ND	0.495	ND	0.502	ND	0.895	ND	0.903	ND			0.818	ND	1.08	ND	0.608	ND	0.787	ND	0.6
46	1	ND	0.489	ND	0.495	ND	0.502	ND	0.895	ND	0.903		0.594	ND	0.818	ND	1.08	ND	0.608	ND	0.787	ND	0.6
(NA)	) (NA	ND	0.489	ND	0.495	ND	0.502	ND	0.895	ND	0.903	ND	0.594	ND	0.818	ND	1.08	ND	0.608	ND	0.787	ND	0.6
(NA)		ND	0.489	ND	0.495	ND I	0.502	ND	0.895	ND	0.903	ND		ND ND	0.818	ND	1.08	ND	0.608	ND	0.787	ND	0.64
1000		ND	0.489	ND	0.495	ND	0.502	ND	0.895	ND	0.903	0.349	0.594	ND	0.818	ND	1.08	ND	0.608	ND	0.787	ND	0.6
(NA)	(NA	ND	0.489	ND	0.495	ND	0.502	ND	0.895	ND			0.594	ND	0.818	ND	1.08	ND	0.608	60.0	0.787	ND	0.64
420		ND ND	0.489	ND	0.495	ND	0.502	ND	0.895	ND	0.903	ND ND	0.594	ND	0.818	ND	1.08	ND	0.608	ND	0.787	ND	0.64
6	1	ND ND	0.489	ND	0.495	ND	0.502	ND	0.895		0.903	ND	0.594	ND	0.818	ND	1.08	ND	0.608	ND	0.787	ND	0.64
1000		ND	0.489	ND I	0.495	ND	0.502	ND	0.895	ND ND	0.903	ND	0.594	ND NO	0.818	ND	1.08	ND	0.608	ND	0.787	ND	0.6
680	1	ND	0.489	ND I	0.495	ND	0.502	ND ND	0.895		0.903	ND	0.594	ND	0.818	ND	1.08	ND	0.608	ND	0.787	ND	0.64
1000		ND	0.489	ND	0.495	ND	0.502	ND		ND 0.476	0.903	ND C	0.594	ND	0.818	ND	1.08	ND	0.608	ND	0.787	ND	0.64
1000		ND ND	0.489	ND	0.495	ND -	0.502	ND	0.895	0.476	J 0.903	0.138	0.594	0.324 J	0.818	12.6	1.08	ND	0.608	ND	0.787	ND	0.64
370	1	ND	0.489	ND	0.495	ND	0.502	ND ND	0.895	ND	0.903	1.31	0.594	0.294 J	0.818	7.60	1.08	ND	0.608	ND	0.787	ND	0.64
70	<del>                                     </del>	ND ND	0.489	ND ND	0.495	ND	0.502		0.895	ND	0.903	ND	0.594	ND	0.818	ND	1.08	ND	0.608	ND	0.787	ND	0.64
0000		ND ND	0.489	ND	0.495	ND ND		ND	0.895	ND	0.903	ND	0.594	ND	0.818	ND	1.08	ND	0.608	ND	0.787	ND	0.64
0000		ND ND					0.502	ND	0.895	ND	0.903	ND	0.594	ND	0.818	ND	1.08	ND	0.608	ND	0.787	ND	0.64
0000							_										1.08	ND	0.608	ND	0.787	ND	0.64
			0.409		0.495		0.502		0.895		0.903		0.594		0.818		1.08	ND	0.608	ND	0.787	ND	0.64
			+		+				<del></del> -		1		<u> </u>	1.21 J			$oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{ol}}}}}}}}}}}}}}}}}}}}$	ND	L = T	91.3		ND	T
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0.495   ND   0.502   ND   0.895   ND   0.903   ND   0.694   ND   0.818   ND   1.08   ND   ND   ND   0.495   ND   0.502   ND   0.895   ND   0.903   ND   0.594   ND   0.818   ND   1.08   ND   ND   ND   ND   0.663   1.54   J   2.02   J   1.21   J   2.02   ND   ND   ND   ND   ND   ND   ND   N	100 100 ND 0.489 ND 0.495 ND 0.502 ND 0.895 ND 0.903 ND 0.594 ND 0.818 ND 1.08 ND 0.608 ND 0.489 ND 0.489 ND 0.485 ND 0.502 ND 0.885 ND 0.903 ND 0.594 ND 0.818 ND 1.08 ND 0.608 ND 0.6	100 100 ND 0.489 ND 0.495 ND 0.502 ND 0.895 ND 0.903 ND 0.694 ND 0.818 ND 1.08 ND 0.608 ND 0.608 ND 0.495 ND 0.495 ND 0.502 ND 0.895 ND 0.903 ND 0.594 ND 0.818 ND 1.08 ND 0.608 ND 0.608 ND 0.818 ND 1.08 ND 0.608 ND 0.818 ND 0.818 ND 1.08 ND 0.608 ND 0.818	100 100 ND 0.489 ND 0.495 ND 0.502 ND 0.895 ND 0.903 ND 0.694 ND 0.818 ND 1.08 ND 0.608 ND 0.787 ND 0.895 ND 0.895 ND 0.903 ND 0.594 ND 0.818 ND 1.08 ND 0.608 ND 0.787 ND ND ND ND 0.603 1.54 J 2.02 J 1.21 J 20.2 ND 91.3 ND ND ND 0.643 122 214 53.5 14.9 4500 ND ND ND ND ND 0.643 123 216 J 55.5 J 16.1 J 4520 ND 91.3 ND ND ND 0.643 123 216 J 55.5 J 16.1 J 4520 ND 91.3 ND 0.608 ND 0.787 ND 0.608 ND 0.787 ND ND ND ND ND ND ND ND ND ND ND ND ND	100 100 ND 0.489 ND 0.495 ND 0.502 ND 0.895 ND 0.903 ND 0.694 ND 0.818 ND 1.08 ND 0.608 ND 0.787 ND 0.504 ND 0.489 ND 0.489 ND 0.495 ND 0.608 ND 0.885 ND 0.903 ND 0.594 ND 0.818 ND 1.08 ND 0.608 ND 0.787 ND 0.504 ND 0.818 ND 1.08 ND 0.608 ND 0.787 ND 0.504 ND 0.818 ND 1.08 ND 0.608 ND 0.787 ND 0.504 ND 0.818 ND 1.08 ND 0.608 ND 0.787 ND 0.504 ND 0.818 ND 1.08 ND 0.608 ND 0.787 ND 0.504 ND 0.504 ND 0.608 ND 0.787 ND 0.504 ND 0.608 ND 0.787 ND 0.504 ND 0.608 ND 0.787 ND 0.504 ND 0.608 ND 0.787 ND 0.504 ND 0.608 ND 0.787 ND 0.504 ND 0.608 ND 0.787 ND 0.504 ND 0.608 ND 0.787 ND 0.504 ND 0.608 ND 0.787 ND 0.504 ND 0.608 ND 0.787 ND 0.504 ND 0.608 ND 0.787 ND 0.608 ND 0.787 ND 0.608 ND 0.787 ND 0.608 ND 0.787 ND 0.608 ND 0.787 ND 0.608 ND 0.787 ND 0.608 ND 0.787 ND 0.608 ND 0.787 ND 0.608 ND 0.787 ND 0.608 ND 0.787 ND 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ND = Analyzed for but Not Detected at the MDL J = The concentration was detected at a value below the MDL Concentrations in BOLD exceed the SCC.

Table 2

#### Three Y, LLC Properties, 163 Old River Road Edgewater, NJ

Client ID:	NJDEP	NJDEP	NJDEP	] 3	Y-14B
Sample Depth (ft bg):	RDC	NRDC	IGW		4/4.5
Lab ID:	SCC	SCC	scc		185-003
Date Sampled: Matrix:		ł		98	/04/2005 Soil
Semivolatiles - BN (ppm)			<del> </del>	-	3011
N-Nitrosodimethylamine	(NA)	(NA)	(NA)	ND	0.934
Aniline	(NA)	(NA)	(NA)	ND	0.934
bis(2-Chloroethyl)ether	0.66	3	10	ND	0.934
1,3-Dichlorobenzene	5190	10000	100	ND	0.934
1,4-Dichlorobenzene	570	10000	100	ND	0.934
Benzyl alcohol	10000	10000	50	ND	0.934
1,2-Dichlorobenzene	(NA)	(NA)	(NA)	ND	0.934
bis(2-chloroisopropyl)ether	2300	10000	10	ND	0.934
N-Nitroso-di-n-propylamine	0.66	0.66	10	ND	0.934
Hexachloroethane	6	100	100	ND	0.934
Nitrobenzene	28	520	10	ND	0.934
Isophorone	1100	10000	50	ND	0.934
bis(2-Chloroethoxy)methane	(NA)	(NA)	(NA)	ND	0.934
1,2,4-Trichlorobenzene	68 230	1200	100	ND 77.6	0.934
Naphthalene	230	4200 4200	100 NA	77.6 ND	0.934
4-Chloroaniline Hexachlorobutadiene	1	21	100	ND	0.934
2-Methylnaphthalene	(NA)	(NA)	(NA)	38.6	0.934
Hexachlorocyclopentadiene	400	7300	100	ND	0.934
2-Chloronaphthalene	(NA)	(NA)	(NA)	ND	0.934
2-Nitroaniline	(NA)	(NA)	(NA)	ND	0.934
Dimethylphthalate	10000	10000	50	ND	0.934
2,6-Dinitrotoluene	1	4	10	ND	0.934
Acenaphthylene	(NA)	(NA)	(NA)	3.93	0.934
3-Nitroaniline	(NA)	(NA)	(NA)	ND	0.934
Acenaphthene	3400	10000	100	45.6	0.934
2,4-Dinitrotoluene	1	4	10	ND	0.934
Dibenzofuran	(NA)	(NA)	(NA)	29.1	0.934
Diethylphthalate	10000	10000	50	ND	0.934
Fluorene	2300	10000	100	46.4	0.934
4-Chlorophenyl-phenylether	(NA)	(NA)	(NA)	ND	0.934
4-Nitroaniline	(NA)	(NA)	(NA)	ND	0.934
N-Nitrosodiphenylamine	140	600	100	ND	0.934
1,2-Diphenylhydrazine/Azobenzene	(NA)	(NA)	(NA)	ND	0.934
4-Bromophenyl-phenylether	(NA)	(NA)	(NA)	ND	0.934
Hexachlorobenzene	0.66	2	100	ND	0.934
Phenanthrene	(NA)	(NA)	(NA)	114	0.934
Anthracene	10000	10000	100	45.3	0.934
Carbazole	(NA)	(NA)	(NA)	16.0 ND	0.934 0.934
Di-n-butylphthalate Fluoranthene	5700 2300	10000	100	98.4	0.934
Benzidine	(NA)	(NA)	(NA)	ND	0.934
Pyrene	1700	10000	100	71.5	0.934
3,3'-Dimethylbenzidine	(NA)	(NA)	(NA)	ND ND	0.934
Butylbenzylphthalate	1100	10000	100	ND	0.934
3,3'-Dichlorobenzidine	2	6	100	ND	0.934
Benzolalanthracene	0.9	4	500	40,9	0.934
Chrysene	9	40	500	41.4	0.934
bis(2-Ethylhexyl)phthalate	49	210	100	ND	0.934
		10000	100	ND	0.934
Di-n-octylphthalate	1100				
Di-n-octylphthalate Benzo[b]fluoranthene	0.9	4	50	26.1	0.934
			50 500	26.1 21.8	0.934
Benzo[b]fluoranthene Benzo[k]fluoranthene	0.9	4			<del></del>
Benzo[b]fluoranthene	0.9 0.9	4	500	21.8	0.934
Benzo[b]fluoranthene Benzo[k]fluoranthene Benzo[a]pyrene	0.9 0.9 0.66	4 4 0.66	500 100	21.8 31.8	0.934 0.934
Benzo[b]filuoranthene Benzo[k]filuoranthene Benzo[a]pyrene Indeno[1,2,3-cd]pyrene	0.9 0.9 0.66 0.9	4 4 0.66 4	500 100 500	21.8 31.8 17.1	0.934 0.934 0.934
Benzo[b]fluoranthene Benzo[k]fluoranthene Benzo[a]pyrene Indeno[1,2,3-cd]pyrene Dibenz[a,h]anthracene	0.9 0.9 0.66 0.9 0.66	4 4 0.66 4 0.66	500 100 500 100	21.8 31.8 17.1 8.10	0.934 0.934 0.934 0.934
Benzo[b]filuoranthene Benzo[k]filuoranthene Benzo[a]pyrene Indeno[1,2,3-cd]pyrene Dibenz[a,h]anthracene Benzo[g,h,i]perylene	0.9 0.9 0.66 0.9 0.66 (NA)	4 4 0.66 4 0.66 (NA)	500 100 500 100 (NA)	21.8 31.8 17.1 8.10 16.6	0.934 0.934 0.934 0.934

ND = Analyzed for but Not Detected at the MDL

J = The concentration was detected at a value below the MDL.
Concentrations in BOLD exceed SCC.

TABLE 3
SUMMARY OF SOIL SAMPLES EXCEEDING NJDEP SCC

#### Three Y, LLC Properties 163 Old River Road, Edgewater, NJ

Boring/		Class of Compounds	
Sample ID	Depth	That Exceed SCC	Material
3Y-1A	0 - 0.5 ft bg	BNAs, Metals	Fill
3Y-1A	2 - 2.5 ft bg	None	Fill
3Y-1B	6.5 - 7 ft bg	BNAs, Metals, VOCs	Fill
3Y-1R	18 - 18.5 ft bg	None	Natural soils
3Y-1C	22.5 - 23 ft bg	None	Natural soils
3Y-1D	56.5 - 57 ft bg	None	Natural soils Fill
3Y-2A 3Y-2A; 3Y-2E	0 - 0.5 ft bg 2 - 2.5 ft bg	BNAs BNAs, Metals	Fill
3Y-2B	6 - 6.5 ft bg	None	Natural soils
3Y-2C	20 - 20.5 ft bg	None	Natural soils
3Y-2R	36 - 36.5 ft bg	None	Natural soils
3Y-2D	47.5 - 48 ft bg	None	Natural soils
3Y-3A	0 - 0.5 ft bg	None	Fill
3Y-3A	2 - 2.5 ft bg	VOCs	Fill
3Y-3B	6 - 6.5 ft bg	BNAs	Fill
3Y-3C	17 - 17.5 ft bg	None	Natural soils
3Y-3D 3Y-4A	34 - 34.5 ft bg 0 - 0.5 ft bg	None BNAs	Natural soils Fill
3Y-4A 3Y-4A	2 - 2.5 ft bg	None	FIII
3Y-4B	6 - 6.5 ft bg	BNAs	Natural soils
3Y-4C	14 - 14.5 ft bg	None	Natural soils
3Y-4D	44 -44.5 ft bg	None	Natural soils
3Y-5A	0 - 0.5 ft bg	BNAs	Fill
3Y-5A	4 - 4.5 ft bg	None	Fill
3Y-5B	6 - 6.5 ft bg	BNAs	Fill
3Y-5C	16 - 16.5 ft bg	BNAs	Natural soils
3Y-5R 3Y-5D	17 - 17.5 ft bg	None None	Natural soils Natural soils
3Y-6	38 - 38.5 ft bg 6.5 - 7 ft bg	None	Fill
3Y-7	6.5 - 7 ft bg	VOCs	Fill
3Y-8	6.5 - 7 ft bg	None	Fill
3Y-9	6.5 - 7 ft bg	None	
3Y-10	2-2.5 ft bg	None	Fill
3Y-11	2-2.5 ft bg	VOCs	Fill
3Y-12	2-2.5 ft bg	VOCs	Fill
3Y-13		VOCs	
3Y-14A	2-2.5 ft bg		Fill
	0-6" bg	None	
3Y-14B	4 - 4.5 ft bg	BNs	FIII
3Y-14C	17 - 17.5 ft bg	None	Natural soils
3Y-15	4 - 4.5 ft bg	None	Fill
3Y-16	4 - 4.5 ft bg	None	Fill
3Y-17	4 - 4.5 ft bg	None	Fill
3Y-18	4 - 4.5 ft bg	None	Fill
3Y-19	6-6.5 ft bg	None	Fill
3Y-20	5.5-6 ft bg	VOCs	Fill
3Y-21		None	Fill
	6-6.5 ft bg		
3Y-22	5-5.5 ft bg	None	Fill
3Y-23	6-6.5 ft bg	None	Fill
3Y-24	6.5-7 ft bg	None	Fill
3Y-25	2-2.5 ft bg	VOCs	Fill
3Y-26	Not sampled	-	Fill
3Y-27	6-6.5 ft bg	None	Fill
		<del></del>	

#### **TABLE 4**

# SUMMARY OF LABORATORY RESULTS FOR GROUND-WATER SAMPLES

#### Three Y, LLC Properties 163 Old River Road, Edgewater, NJ

<b>a</b> r	NJDEP	3Y-MW1					3Y-MW2			
Client ID:	Ground Water Quality		623			975	001			
Lab ID: Date Sampled:	Standards	02623-001 03/21/2005			08875-001 08/24/2005			08875-002 08/24/2005		
VOCs (µg/L)	Danidaras	Conc	Q	MDL	Conc	Γα	MDL	Conc	Q	MDL
Dichlorodifluoromethane	1000	ND	<u> </u>	0.440	NA	<del> </del> ¯	-	NA	-	-
Chloromethane	30	ND		0.590	ND	┢	0.740	ND		0.740
Vinyl chloride	5	ND	$\vdash$	0.540	ND		0.450	ND		0.450
Bromomethane	10	ND		1.16	ND		0.390	ND		0.390
Chloroethane	100	ND		0.970	ND		0.470	ND		0.470
Trichlorofluoromethane	2000	ND	Г	0.680	ND		0.300	ND		0.300
1,1-Dichloroethene	2	ND		0.650	ND		0.360	ND		0.360
Acetone	700	9.01		2.57	NA		-	NA		-
Carbon disulfide	800	ND		0.680	NA		-	NA		-
Methylene chloride	3	ND		1.98	ND		1.99	ND		1.99
trans-1,2-Dichloroethene	100	ND		0.550	ND		0.460	ND		0.460
Methyl-t-butyl ether(MTBE)	70	0.468		0.370	NA	L	-	NA		
1,1-Dichloroethane	50	ND	Щ	0.450	ND	L_	0.250	ND	L	0.250
cis-1,2-Dichloroethene	70	ND	<u> </u>	0.440	NA		-	NA		•
2-Butanone(MEK)	300	ND	Ш	0.320	NA			NA		
Bromochloromethane	NS	ND	$ldsymbol{oxed}$	0.520	NA	<u> </u>		NA		-
Chloroform	6	ND	_	0.460	0.438	<u> </u>	0.250	ND		0.250
1,1,1-Trichloroethane	30	ND		0.400	ND	L_	0.250	ND		0.250
Carbon tetrachloride	2	ND	_	0.410	ND	L	0.250	ND	L.,	0.250
1,2-Dichloroethane(EDC)	2	ND		0.360	ND	Щ	0.400	ND		0.400
Benzene	1	1.60		0.470	1.31		0.250	ND	$\Box$	0.250
Trichloroethene	1	ND	L	0.420	ND	<u> </u>	0.350	ND	$\Box$	0.350
1,2-Dichloropropane	1	ND	L_	0.370	ND	Щ.	0.260	ND		0.260
Bromodichloromethane	1	ND		0.380	ND	L_	0.250	ND	$\Box$	0.250
cis-1,3-Dichloropropene	NS	ND	<u> </u>	0.240	ND	L	0.250	ND		0.250
4-Methyl-2-pentanone(MIBK)	400	ND		0.240	NA	<u> </u>		NA		-
Toluene	1000	0.698	H	0.390	0.523	-	0.250	ND	-	0.250
trans-1,3-Dichloropropene	NS	ND	_	0.270	ND	⊢	0.310	ND		0.310
1,1,2-Trichloroethane	3	ND ND		0.450	ND ND	<u> </u>	0.250 0.450	ND ND		0.250 0.450
Tetrachloroethene 2-Hexanone	100	ND	-	0.330	NA NA	_	0.450	NA NA		0.430
2-riexanone Dibromochloromethane	100	ND		0.270	ND		0.250	ND ND		0.250
	0.05	ND		0.380	NA NA	$\vdash$	0.250	NA NA		0.230
1,2-Dibromoethane(EDB) Chlorobenzene	50	ND ND	-	0.380	ND	-	0.250	ND		0.250
Ethylbenzene	700	0.589	$\vdash$	0.400	0.471	-	0.250	ND		0.250
Total Xylenes	1000	1.10		1.01	1.88	-	0.480	ND		0.480
Styrene	100	ND	$\vdash$	0.280	NA NA		0.700	NA NA		0.400
Bromoform	4	ND	$\vdash$	0.400	ND		0.250	ND	$\neg$	0.250
Isopropylbenzene	800	ND	H	0.290	NA		D.1200	NA.		
1.1.2.2-Tetrachloroethane	1	ND		0.410	ND		0.250	ND	$\neg$	0.250
1,3-Dichlorobenzene	600	ND		0.450	ND		0.250	ND		0.250
1.4-Dichlorobenzene	75	ND		0.380	ND		0.250	ND		0.250
1,2-Dichlorobenzene	600	ND	_	0.370	ND		0.250	ND		0.250
1,2-Dibromo-3-chloropropane	1	ND	П	0.490	NA		-	NA		-
1,2,4-Trichlorobenzene	9	ND		0.590	NA		-	NA		-
1,2,3-Trichlorobenzene	NS	ND		0.280	NA		-	NA		-
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	ND		0.760	NA		-	NA		-
Methyl acetate	7000	ND		0.730	NA			NÄ		
Cyclohexane	100	2.07		0.420	NA		-	NA		-
Methylcyclohexane	NS	0.917		0.320	NA		-	NA		
TOTAL VO's:	NA	16.5			4.62			ND		
TOTAL TIC's:	NA	206			282			ND		
TOTAL VO's & TIC's:	NA	223			287			ND		
General Analytical										
Cyanide, Total-ug/l	NS	ND		20.0	NA		-	NA		-
Ammonia-ug/l	3000	3000		200	3160		200	6340		200

## SUMMARY OF LABORATORY RESULTS FOR GROUND-WATER SAMPLES

## Three Y, LLC Properties 163 Old River Road, Edgewater, NJ

<b>a</b>	NJDEP	3Y-MW1 3Y-MW2 02623-001 08875-001 08875-002							410	
Client ID:	Ground Water	<u> </u>				075	004			
Lab ID: Date Sampled:	Quality Standards		523- 21/2			875 /24/2			875- /24/2	
	Otalidatus			1	- 00	T .	. <del></del>	- 00	12.412	1
BNAs (µg/L) Benzaldehyde	NS	ND		0.180	NA	╁	<del> </del>	NA	⊢	
Phenol	4000	ND	┢	0.150	NA.	1	<del>-</del>	NA NA	├	-
bis(2-Chloroethyl)ether	10	ND	-	0.130	NA.	1	<del>                                     </del>	NA NA	<del>  -</del>	<u> </u>
2-Chlorophenal	40	ND	┝	0.120	NA.	╀	<del> </del>	NA NA	├	<del>                                     </del>
2-Methylphenol	NS	ND	┢	0.180	NA	╁	<del>  .                                     </del>	NA.	╅	<del></del>
bis(2-chloroisopropyl)ether	300	ND	_	0.200	NA	t	-	NA.	t-	<b>.</b>
4-Methylphenol	NS	ND		0.300	NA	t	-	NA	<del>                                     </del>	-
N-Nitroso-di-n-propylamine	20	ND	_	0.200	NA	T	-	NA		
Acetophenone	1000	ND		0.230	NA		-	NA		-
Hexachloroethane	10	ND		0.190	NA		-	NA		-
Nitrobenzene	10	ND		0.250	NA		-	NΑ		-
Isophorone	100	ND		0.120	NA			NA		-
2-Nitrophenol	100	ND		0.460	NA	$oxedsymbol{oxed}$	-	NA		-
2,4-Dimethylphenol	100	ND	<u> </u>	0.220	NA	<u> </u>	-	NA	<u> </u>	
bis(2-Chloroethoxy)methane	100	ND	Щ	0.120	NA	▙	<u> </u>	NA	<u> </u>	
2,4-Dichlorophenol	20	ND	L	0.210	NA	┞_	<u> </u>	NA	<u> </u>	
Naphthalene	300	65.5		0.110	NA	ļ	-	NA		-
4-Chloroaniline	30	ND		0.140	NA	├	<u> </u>	NA	<u> </u>	
Hexachlorobutadiene	1	ND		0.240	NA	⊢	<u> </u>	NA NA		-
Caprolactam	NS 100	ND ND	$\vdash$	0.380 0.230	NA NA	-	-	NA NA		-
4-Chioro-3-methylphenol 2-Methylnaphthalene	100	10.6	$\vdash$	0.230	NA NA	┢─	<del>-</del>	NA NA	├	<del></del>
Hexachlorocyclopentadiene	50	ND		0.330	NA NA	⊢	<del></del>	NA NA	$\vdash$	-
2,4,6-Trichlorophenol	20	ND	_	0.270	NA NA	$\vdash$	<del></del>	NA.	<del> </del>	<u> </u>
2,4,5-Trichlorophenol	700	ND	_	0.300	NA	$\vdash$	-	NA.	-	_
1-1'-Biphenyl	NS	2.57		0.120	NA	<del>                                     </del>	<del>-</del>	NA.	_	
2-Chloronaphthalene	600	ND		0.120	NA	_	-	NA		-
2-Nitroaniline	NS	ND		0.500	NA		-	NA		-
Dimethylphthalate	NS	ND		0.190	NĂ		-	NA		-
2,6-Dinitrotoluene	NS	ND		0.480	NA		-	NA		-
Acenaphthylene	NS	0.373		0.180	NA		-	NA		-
3-Nitroaniline	NS	ND		0.320	NA		-	NA		-
Acenaphthene	400	41.5		0.170	NA	L	-	NA		-
2,4-Dinitrophenol	40	ND		0.470	NA	_	-	NA		-
4-Nitrophenol	100	ND		0.460	NA	<u> </u>	-	NA	Щ	-
2,4-Dinitrotoluene	10	ND		0.450	NA			NA	Ш	
Dibenzofuran	100	15.1		0.120	NA	<b> </b>		NA		
Diethylphthalate	5000 300	ND 20.0	$\square$	0.180	NA NA	$\vdash$	•	NA NA	$\vdash \vdash$	
Fluorene 4-Chlorophenyi-phenylether	100	20.9 ND	$\vdash$	0.180 0.230	NA NA	$\vdash$	-	NA NA	$\vdash \vdash$	-
4-Chlorophenyi-phenylether 4-Nitroaniline	NS	ND ND		0.230	NA NA	├		NA NA	$\vdash \vdash$	-
1.2.4.5-Tetrachlorobenzene	NS NS	ND	$\dashv$	0.380	NA NA	$\vdash$		NA NA	$\vdash\vdash$	
4,6-Dinitro-2-methylphenol	100	ND	$\vdash$	0.780	NA NA	$\vdash$	<del></del>	NA NA		
N-Nitrosodiphenylamine	20	ND	$\dashv$	0.150	NA NA	$\vdash$		NA NA		
4-Bromophenyl-phenylether	NS	ND		0.260	NA	<b>-</b>		NA NA		
Hexachlorobenzene	10	ND	$\vdash$	0.190	NA	_	-	NA.		-
Atrazine	3	ND	$\neg$	0.280	NA		_	NA	$\neg$	-
Pentachlorophenol	1	ND	$\neg$	0.490	NA		-	NA	$\dashv$	-
Phenanthrene	100	41.7		0.110	NA		-	NA		
Anthracene	2000	5.67		0.140	NA		-	NA		-
Carbazole	NS	21.6		0.170	NA			NA		-
Di-n-butylphthalate	900	ND		0.160	NA		_	NA		
Fluoranthene	300	6.19		0.190	NA		-	NA		·

## SUMMARY OF LABORATORY RESULTS FOR GROUND-WATER SAMPLES

## Three Y, LLC Properties 163 Old River Road, Edgewater, NJ

	NJDEP		_	•	•	_						
Client ID:	Ground Water				W1							
Lab ID:	Quality		623-			875-			NA NA NA NA NA NA NA NA NA NA NA NA NA N			
Date Sampled:	Standards	03/	21/2	005	08.	24/2	2005	08.	124/2	005		
BNAs (µg/L) (cont.)			_									
Pyrene	200	4.58		0.140	NA	L	<u> </u>		Щ			
Butylbenzylphthalate	100	0.267	٦	0.310	NA	_						
3,3'-Dichlorobenzidine	60	ND		0.430	NA	<u>L</u>	-		<u> </u>			
Benzo[a]anthracene	0.2	0.491		0.150	NA	<u>L.</u>	-	NA		_		
Chrysene	5	0.477		0.140	NA			NA		-		
bis(2-Ethylhexyl)phthalate	30	ND		0.370	NA		-	NA		-		
Di-n-octylphthalate	100	ND		0.570	NA		-	NA		-		
Benzo[b]fluoranthene	10	ND		0.340	NA		-	NA		•		
Benzo[k]fluoranthene	1	ND		0.630	NA		-	NÁ		-		
Benzo[a]pyrene	0.2	0.256		0.200	NA		-	NA		-		
Indeno[1,2,3-cd]pyrene	10	ND		0.510	NA		-	NA		-		
Dibenz[a,h]anthracene	0.5	ND		0.490	NA		-	NA	<u> </u>	-		
Benzo[g,h,i]perylene	100	ND		0.310	NA	Г	-	NA		-		
TOTAL BNA'S:	NS	238	7		NA			NA		-		
TOTAL TIC's:	NS	16.3			NA	$\Box$	-	NA		-		
TOTAL BNA'S & TIC's:	NS	254	7		NA	1	-	NA		-		
PCB's (µg/L)						Г						
Aroclor-1016	0.5	ND		0.200	NA	1	-	NA		-		
Aroclor-1221	0.6	ND		0.200	NA	<del>                                     </del>	-	NA		-		
Aroclor-1232	0.5	ND	-	0.200	NA	┰	-	NA				
Aroclor-1242	0.5	ND	-	0.200	NA	t	-	NA				
Aroclor-1248	0.5	ND	$\vdash$	0.200	NA		<u> </u>		-			
Aroclor-1254	0.5	ND		0.200	NA	一	-		Н			
Arodor-1260	0.5	ND		0.200	NA	1			-	-		
Pesticides (µg/L)						1						
aipha-BHC	0.02	ND		0.010	NA	-		NA				
beta-BHC	0.2	ND		0.010	NA		_		Н			
gamma-BHC	0.2	ND		0.010	NA	$\vdash$			$\vdash$			
delta-BHC	100	ND		0.010	NA	$\vdash$	-		$\vdash$			
Heotachlor	0.4	ND		0.010	NA	$\vdash$			$\vdash$			
Aldrin	0.04	ND	-	0.010	NA	-			$\vdash$	_		
Heptachlor epoxide	0.2	ND	-	0.010	NA	<del>                                     </del>	-		$\vdash$	-		
Endosulfan I	0.4	ND	$\vdash$	0.010	NA							
4.4'-DDE	0.1	ND		0.010	NA.	<del> </del>	-		$\vdash$	-		
Dieldrin	0.03	ND		0.010	NA.				$\vdash$			
Endrin	2	ND		0.010	NA.	_			-			
Endosulfan II	0.4	ND	-	0.010	NA.	$\vdash$			-			
4.4'-DDD	0.1	ND	-	0.010	NA.	<del>  -</del>	استيسا		-			
Endrin aldehyde	NS	ND	$\dashv$	0.010	NA.	H	<del></del>					
Endosulfan sulfate	0.4	ND	$\dashv$	0.010	NA.	Н				<u>-</u>		
4.4'-DDT	0.4	ND	$\dashv$	0.010	NA NA	Н	-	1111	-			
Endrin ketone	NS	ND	ᅱ	0.010	NA NA	Н	-					
Methoxychlor	40	ND	$\dashv$	0.010	NA NA	Н						
	0.6	ND ND	$\dashv$		NA NA	Н		NA NA		-		
alpha-Chlordane gamma-Chlordane	U.5 NS	ND	$\dashv$	0.010	NA NA	Н		NA NA		-		
gamma-Chlordane Toxaphene	NS 3	ND I	$\dashv$	0.010	NA NA	$\vdash$	-	NA NA				
гохариеле	3	טא		0.075	NA	لبا	-	N/A				

## SUMMARY OF LABORATORY RESULTS FOR GROUND-WATER SAMPLES

## Three Y, LLC Properties 163 Old River Road, Edgewater, NJ

	-	NJDEP								"			
C	lient ID:	Ground Water			3Y-l	VIW1				Y-MV			
	Lab ID:								08875-002				
Date S	ampled:	Standards	03/	21/2	005	08/	24/2	005	08/24/2005				
Metals (µg/L)		_											
Aluminum		200	280		40.0	NA		-	NA		-		
Antimony		. 20.	AHD	$\mathcal{L}$	4.00	NA		-	NA		-		
Arsenic		3 X (	5.86	$\mathbb{N}$	4.00	NA		-	NA				
Barium		2000	ND		40.0	NA		-	NA		-		
Beryllium		20	ND		2.00	NA		-	NA				
Cadmium		4	1.44		1.00	NA		]	NA		-		
Calcium		NS	195000		200	NA		-	NA		-		
Chromium		100	ND		8.00	NA		-	NA		-		
Cobalt		100	ND		8.00	NA		-	NA		-		
Copper		1000	ND		8.00	NA		-	NA		-		
Iron		300	4080		100	NA		-	NA				
Lead		10	ND		2.00	NA		-	NA		-		
Magnesium		NS	47100		200	NA			NA		-		
Manganese		50	5580		4.00	NA			NA		-		
Mercury		2	ND		0.500	NA		- 1	NA		-		
Nickel		100	ND		4.00	NA		-	NA				
Potassium		NS	15400		200	NA		-	NA		-		
Selenium		50	ND		8.00	NA		-	NA		-		
Silver		30	ND		2.00	NA		-	NA		-		
Sodium		50000	166000		400	NA		,	NΑ		-		
Thallium		10	ND		0.400	NA		-	NA		-		
Vanadium		NS	ND		8.00	NA		-	NA		-		
Zinc		5000	41.1		8.00	NA		-	NA		-		

#### Values in BOLD exceed GWQS

ND = Analyzed for but Not Detected at the MDL

J = The concentration was detected at a value below the MDL

NA = Not analyzed

NS = No standard



TABLE 5

# COMPARISON OF TYPICAL HISTORIC FILL IN NEW JERSEY WITH FILL MATERIAL AT 163 OLD RIVER ROAD

# Three Y, LLC Properties 163 Old River Road, Edgewater, NJ

	New	New Jersey, Statewide ⁽¹⁾						
Compound	Minimum	Maximum	Avg	Maximum				
Benzo(a)anthracene	0.03	160	1.37	121				
Benzo(a)pyrene	0.02	120	1.89	116				
Benzo(b)fluorene	0.02	110	1.91	106				
benzo(k)fluoranthene	0.02	93	1.79	80.1				
Indeno(1,2,3-cd)pyrene,	0.02	67	1.41	48.8				
Dibenzo(a,h)anthracene	0.01	25	1.24	33.6				
Arsenic	0.05	1098	13.2	34.5				
Beryllium	0.01	79.7	1.23	3.45				
Lead	0.28	10700	574	514				

⁽¹⁾ Source: "Technical Requirements for Site Remediation", NJAC 7:26E, Appendix D All concentrations in parts per million

#### COMPARISON OF BENZO[A]PYRENE AND BENZENE **MIGRATION RATES IN GROUND WATER**

Three Y, LLC Properties 163 Old River Road, Edgewater, NJ

0.20

#### SEEPAGE VELOCITY

Seepage Velocity (Vs) = Ki/n

Hydraulic Conductivity K:

Hydraulic Gradient i: Effective Porosity n:

ft/day 0.0100

(est.)

ft/ft

(assumed)

(assumed)

Seepage			
Velocity	Vs =	18.3	ft/year

#### **CONTAMINANT MIGRATION RATE**

Distribution Coefficient ( $K_d$ ) = (Koc) (foc)

where:  $K_{oc}$  = Soil-water partition coefficient (compound specific)

 $f_{oc}$  = Fraction of naturally occurring organic carbon in aquifer

(typically ranges from 0.001 to 0.004 in NJ)

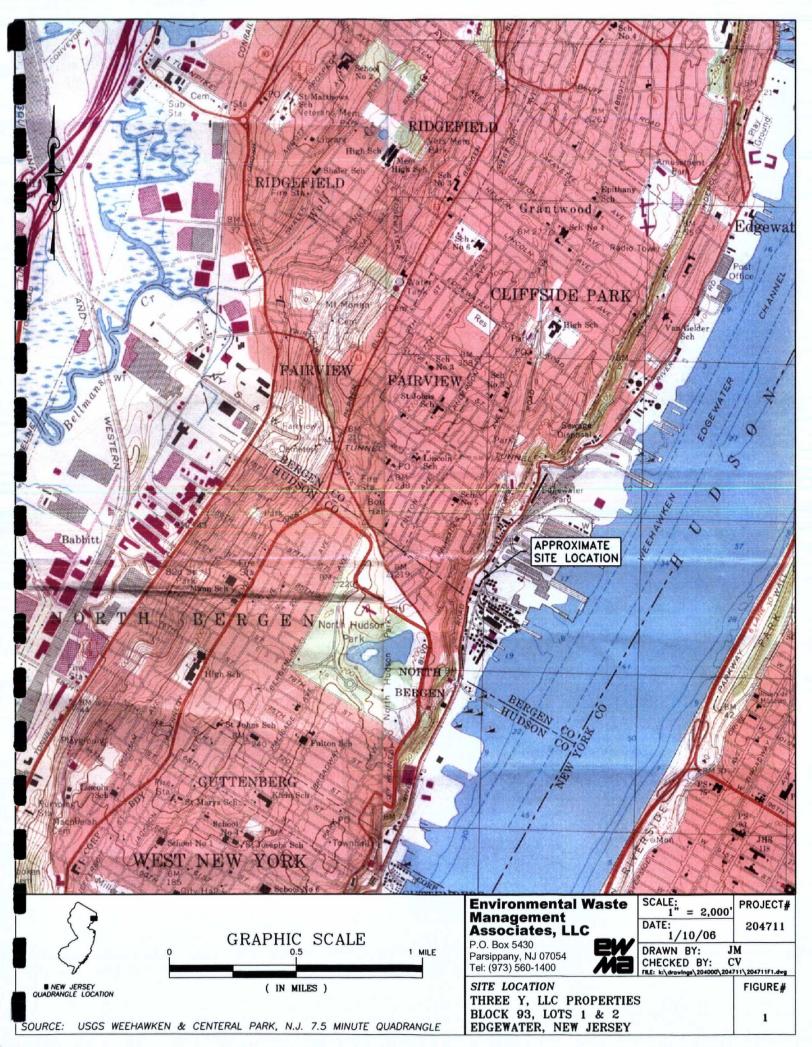
Retardation Factor ( $R_d$ ) = 1+ ( $K_d$ ) ( $p_b$ ) / n

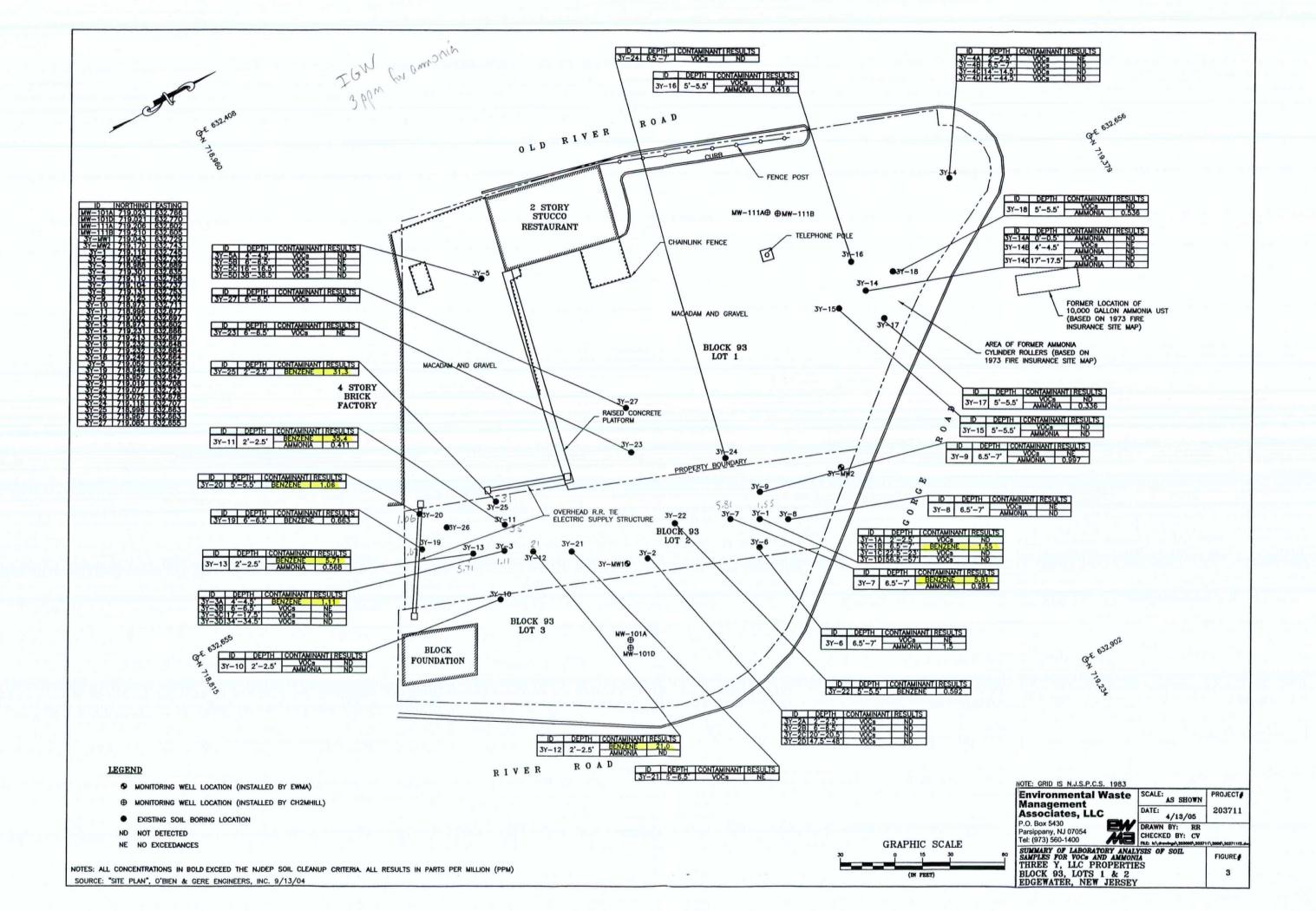
where:  $p_h$  = soil bulk density (in g/cc)

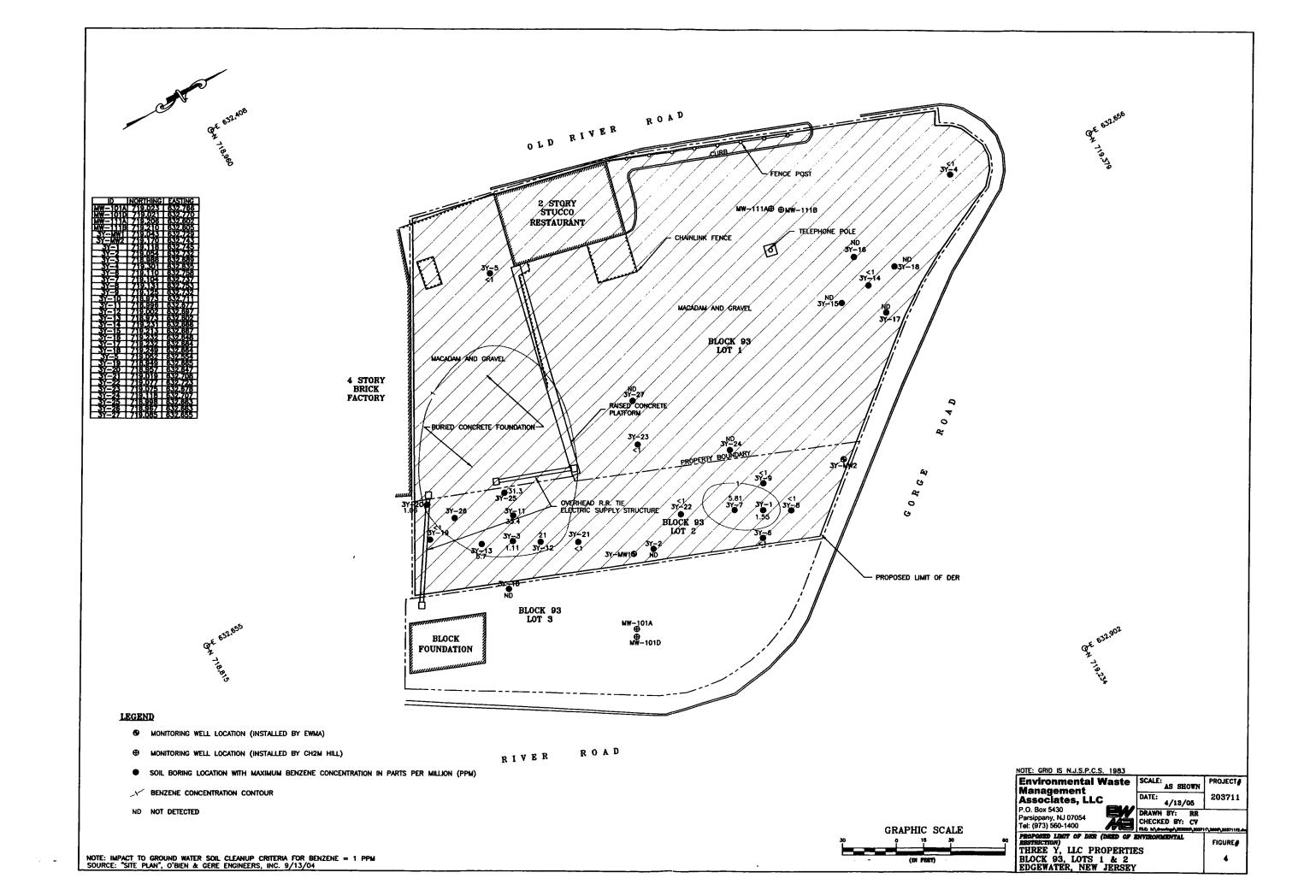
Compound	$K_{oc}$	$f_{oc}$	K _d	$p_{b}$	n	$R_d$
benzo[a]pyrene	398107	0.001	398.107	1.8	0.20	3584.0
benzene	83	0.001	0.083	1.8	0.20	1.7

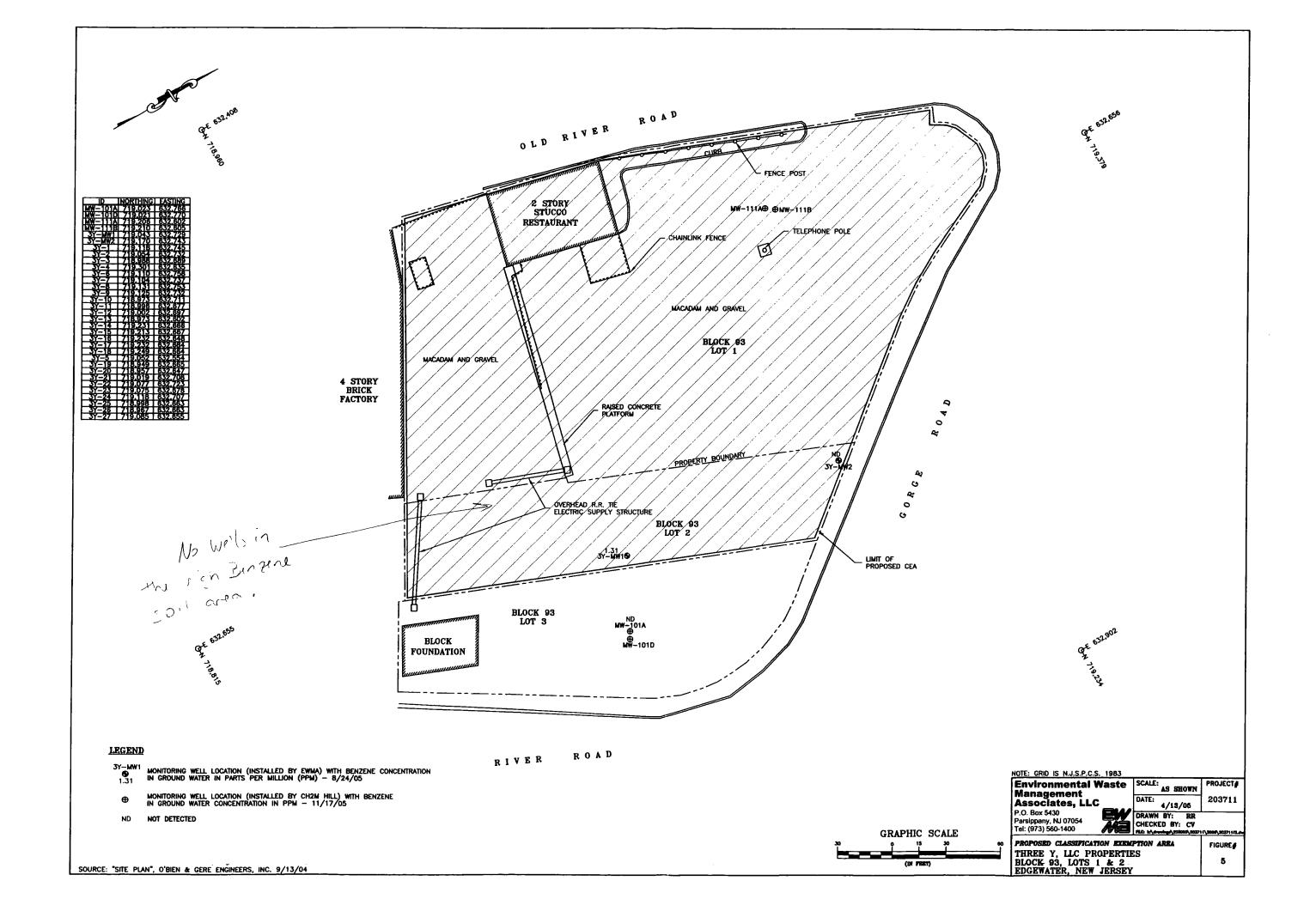
Contaminant Migration Rate (V_c) = Vs / R_d

Contaminant Migration		benzo[a	]pyrene	ber	zene
Rate	Vc =	0.005	ft/year	10.4	ft/year









Cheiron Resources Ltd is an Alberta Canada based company that develops and manufactures high quality, easy to use, cost effective tests for the "instant" detection of petroleum hydrocarbons and chlorinated solvents in soil.



The OilScreenSoilTM tests are field presence / absence indicators of non-volatile, liquid petroleum hydrocarbons and chlorinated solvents.

#### The kits:

- Produce "instant" results (within two minutes)
- Detect oil as low as 500 ppm of TPH (total petroleum hydrocarbon) in soil
- Screen for DNAPLs (dense nonaqueous phase layer), and LNAPLs (light non-aqueous phase layer)
- Can be used with salt-water, or on frozen material with the addition of hot water
- Require no additional instrumentation or specialized training
- Are non-hazardous to human health and the environment

#### Cheiron Resources Ltd.

#280, 5920 – 1 A St SW Calgary, AB, Canada T2H 0G3

Tel: 1 (403) 241-3276 Fax: 1 (403) 241-3278

info@cheiron-resources.com www.cheiron-resources.com

Cheiron Resources Ltd provides the information contained in this pamphlet in good faith, but makes no representation as to its comprehensiveness or accuracy. The information provided is intended only as a guide to the appropriate handling and use of the OilScreenSoilTM kits by a professional person who is qualified to use the materials being tested. Individuals reviewing this information must exercise their independent judgment in determining its appropriateness for a particular purpose or application.



Success Through
Commitment and Excellence

Cost effective, "instant" and disposable field tests for screening of petroleum hydrocarbons and chlorinated solvents in soil







#### OILSCREENSOIL (SUDAN IV) $^{\text{TM}}$ is shown above

OilScreenSoil™ kits were developed as fast, reliable, easy to use and inexpensive field monitoring tools.

OilScreenSoilTM kits are "non-precision" qualitative tests that screen for petroleum hydrocarbons (aliphatic and aromatic) and chlorinated solvents (TCE, TCA & PCE) in soil, sand, or gravel.

OilScreenSoilTM kits are **NOT** suitable for detection of gases (compounds with 4 carbons or less), or for use with heavy crude oils (Bunker C), or solid bituminous materials like asphalt or waxes.

#### OilScreenSoilTM test kits can typically be used within a wide range of petroleum hydrocarbon products including:

- **★**Automotive gasoline (C5-C12)
- ♣Jet Fuels (C5-C16)
- **♣**Fuel Oils #1 & 2 (C9-C20)
- ♣Mineral Oils (C15-C29)
- ★Chlorinated Solvents (C7-C12) including: TCE, TCA and PCE (e.g. Stoddard Solvent/Dry Cleaning Solvent)

Petroleum products are complex mixtures of multiple hydrocarbon compounds and their composition varies depending upon the source of crude oil and refining practices used. Please contact the manufacturer for detailed information on potential applications.

#### OilScreenSoil™ kits can be used to:

- Quickly and easily determine spill boundaries and depths and to identify spill directions in soil
- Detect chlorinated hydrocarbon compounds (Dense Non Aqueous Phase Layer DNAPL) in drill/core samples
- Detect direction and depths of spills from leaking underground and aboveground storage tanks
- Test excavation floor and walls for petroleum hydrocarbons

#### QUICK AND EASY TO USE – SIMPLY: Add soil, add water - shake!

**OilScreenSoil™** tests release specially formulated dyes that stain petroleum products.

The presence of an expandable polystyrene (EPS) bead allows users to rapidly identify the presence of free liquid petroleum products as **low as 500ppm Total Petroleum Hydrocarbons**.

#### Use OilScreenSoil™ Kits for:

- ✓ Instant delineation of spill depth and direction during spill response
- ✓ Cost effective, immediate qualitative field screening/sampling tests for Phase II site assessments and excavations
- Ease of use that requires no special training or instruments
- ✓ Working with a safe test that contains

   a "Deminimus" (<0.01%)</li>

   Concentration of test chemicals

## Other OilScreenSoil Screening Kits include:

- **♦** OILSCREENSOIL (INDIGO BLUE) ™ For use with red soils/clays
- ♣ OILSCREENSOIL (FLUORESCENT) ™ For use with black oils
- **♣** OILSCREENSOIL (SCARLET) ™ A non- mutagenic red dye

EWMA Job #: PROPERTY **Environmental Waste** 203711 **Management Associates, LLC** Well #: 3Y-MW1 PO Box 5430, Parsippany, NJ, 07054 OVERHEAD R.R. TIE ELECTRIC SUPPLY STRUCTURE Phone: (973) 560-1400 Fax:(973) 560-0400 **Start Date:** BLOCK 93 03/03/05 LOT 2 Site: Three Y, LLC Well Permit #: 3Y-MW1 Completion Date: 03/03/05 Geologist: Chris Viani Drilling Co.: Summit Drilling Driller/Helper: Drill Rig: Hollow-Stem Auger **Drilling Method:** Hollow-Stern Auger **WELL LOCATION SKETCH (N.T.S)** Type of Bit: Sampler Type: Split spoon Solid Riser: 0' -12' G,W. Encountered: Well Depth: 22' Screen Interval/Screen Type: G.W. Stabilized: 12' -22', 10-slot PVC Depth to Rim: Borehole Diameter: 8" Well Diameter: Grout: 0' - 10' Sand Pack/Open Borehole: 10' - 22' PID/FID/OUA (METER UNITS) SAMPLE ID AND DEPTH WELL CONSTRUCTION DIAGRAM (N.T.S) BLOWS/6.0 RECOVERY (INCHES) DEPTH (FT.) SOIL TYPE SOIL/GEOLOGICAL DESCRIPTION (Description from Boring 3Y-2) Flush mount SILT, dark brown to black; tace sand and gravel (incl. coal frags manhole. Very moist to wet. locking cap Grout 0'-10' Aspahlt(4")/rusty red sand and gravel (2"). 12' Solid Riser of 2" PVC SAND, fine to medium, well sorted. Brownish gray to reddish brown to grayish brown. Trace grave. Wet and "runny". Sand Pack from 10'-22' 16 10' 0.010 Slot 2" PVC Screen 19 20 20 21 SILT, light brown; little clay; trace fine sand. Occ. fine sand 21 laminae. Moist 22 Set well at 22 ft bg. 23

J																	
	P/		1	Enviro	onme	ental Was	ste		EWMA Job #; 203711	BL	OCK 93						
						nt Asso		LLC	Well #:		or			! /			
	À					arsippany, N			3Y-MW-2	,,,,,				<i>j</i> /			
	Л					0-1400 Fax:			Start Date:	1							
				`					08/05/05					RO4.			
Site: 7	hree	Y, LLC	;				Well Permit #:  PROPERTY BOUNDARY  JY-W/2							3Y-MW2			
		N : 16		_			<del></del>		08/05/05					/ / w			
	Geologist: Chris Viani							Co.: Sumn					, , ,				
	Oriller/Helper: Orilling Method: Hollow-Stem Auger							g: Hollow-St	em Auger	100	-11.10	0 A TION					
Sample			it spool		ger		Type o	T BIT:				CATION	SKE	TCH (N.T.S)			
G.W. E			it spooi		/. Stabi	llizadı		Well Depth:	20'	Solid Riser: 0 Screen Interval		F	pe: 3'-20', 10-slot PVC				
Depth 1						Diameter:	8"	Well Diamet	<del></del>	Grout: 0' - 2'		i ype: d Pack/O _l					
			Γ	Т :	enoie L	Jameter.	0	TAAGII DIBIIIGI	er. Z	Grout: U - 2	T	T -	_				
DEPTH (FT.)	SAMPLE ID AND DEPTH	PID/FID/OUA (METER UNITS)	BLOWS/6.0	RECOVERY (INCHES)	SOIL TYPE		so	IL/GEOLOGIC	CAL DESCRIPTION	N .	DEPTH (FT.)	WELL C	ONSTR	UCTION DIAGRAM (N.T.:			
		<u> </u>	1			1					<b>├</b> ₁	4		Flush mount			
		0	1	1.5'								17	H	manhole,			
<b>.</b>			1		ł	]					²			locking cap			
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<b>' </b> '°				]							¹⁸			PVC Screen			
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<b>'</b>  '	ĺ					SILT, liaht	brown: 1	race sand. F	aint lamination.		20						
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Man Man	_	sociates, LLC	EWMA Job #: 203711  Boring #: 3Y-1	SOUNDARY /	
Phone		y, NJ, 07054 Fax:(973) 560-0400	Install Date: 3/4/05	PROPERTY BOUNDARY	
Site Name: Three Y-LL Site Location: 163 Ri	C ver Rd, Edgewater	- NI		31-1	
	/05	, NJ		BLOCK 93	¢
Geologist: Chris Viani		Drilling Co.:	Summit		
Driller: Summit Drilling		Drill Rig:	Auger rig		
Bit: Ha Sampler Type: Split-S	mmer Wt:	Drop: Total G.W. Encour	Depth: 57'	.//	
Campier Type: Opin-O	50011	G.W. Stabiliz		BORING LOCATION SKETCH (N.T.S)	<del></del>
SAMPLE ID AND DEPTH PID/FID/OUA (METER UNITS)	RECOVERY (INCHES)		SOIL/G	GEOLOGICAL DESCRIPTION	DEPTH (FT.)
26	18 18 12 12 12 12 18 18 12 18 12 18 12	Silt with little clay, to reddish brown to pin sticky and plastic.  No staining, sheens	nkish gray to gray.	(clay fraction increases with depth). Color varies from Occ. fine sand laminae. Moist, stiff. Clay-rich fractions are	

E	N	<b>S</b>	lana	_	ıt Ass	ociat	es, LLC	EWMA Job #: 203711  Boring #: 3Y-1		
	7			5430, Pai			7054 ) 560-0400	Install Date:	PROPERTY BOUNDARY	,
Site Na	ame:	Three \		973) 300	-1400 F	ax.(973)	) 560-0400	3/4/05	//	
Site Lo	cation	: 163	3 River	Rd, Edg	ewater	, NJ			34-1	
Compl			3/4/0	5					BLOCK 93 LOT 2	
		Chris V					Drilling Co.:		/	
	Sum	mit Dril						Auger rig		
Bit:	- T			ner Wt:		Drop:		Depth: 57'	/ /	
Sample	eriyp	e: Spi	it-Spoo	on			G.W. Encoun			
	O T	L	Γ	<del>                                     </del>	Γ	T	G.W. Stabilize	ea:	BORING LOCATION SKETCH (N.T.S)	
ОЕРТН (FT.)	SAMPLE ID AND DEPTH	PID/FID/OUA (METER UNITS)	BLOWS/6.0"	RECOVERY (INCHES)	SOIL TYPE			SOIL/G	GEOLOGICAL DESCRIPTION	DEPTH (FT.)
1 2						Silt and No sta	d sand, dark b ining, sheen, c	rown to dark gra or odors. <u>FILL.</u>	y; trace gravel (incl. brick fragments). Moist.	
3 4	3Y-1A	0		18	_	OIS	test (3') = Neg	gative.		
5 6		0		18		SAND, OIS te:	, black; some s st (5') = negat	silt; little gravel. I ive.	Mostly composed of coal fragments. Possible slight sheen. FILL	
— °	3Y-1B	0		12		Fabri Mediur	ic layer at 6.25	' - 6.5'. gular sand and a	ingular fine gravel, with abundant cinders, dark gray to black.	' 
8	3Y-1R	0 0 0 0 0 0		18 18 18 18 18		SAND,	fine to mediun	n, brown, well so	rted; trace silt. Wet. No staining or sheen.	
	3Y-1C	0		18	\$	Silt with	little clay, to cl	lay with some silt	(clay fraction increases with depth). Color varies from reddish e sand laminae. Moist, stiff.	22 23 24
	[	0		18						

E	VE N	3 PO	lanag O Box s none: (S	- 5430, Pai	i <b>t Ass</b> rsippany	/aste sociates, LLC y, NJ, 07054 ax:(973) 560-0400	EWMA Job #: 203711  Boring #: 3Y-1  Install Date: 3/4/05	PROPERTY BOUNDARY	/				
		Three \						] / /					
Site Lo			3/4/05	Rd, Edg	ewater	, NJ		BLOCK 93 LOT 2	ن				
		Chris V				Drilling Co.	Drilling Co.: Summit						
		mit Dril				Drill Rig:	Auger rig	//					
Bit:				ner Wt:			l Depth: 57'	/ //					
Sampl	er Type	e: Spl	it-Spoo	on		G.W. Encou							
	T					G.W. Stabili	zed:	BORING LOCATION SKETCH (N.T.S)	`				
DEPTH (FT.)	SAMPLE ID AND DEPTH	PID/FID/OUA (METER UNITS)	BLOWS/6.0"	RECOVERY (INCHES)	SOIL TYPE		SOIL/	GEOLOGICAL DESCRIPTION	DEPTH (FT.)				
51 52 53 54 55 56	3Y-1D	0	BF0.	12 12 12		reddish brown to pi sticky and plastic. No staining, sheen	(clay fraction increinkish gray to gray s, or odors.	eases with depth). Color varies from  Occ. fine sand laminae. Moist, stiff. Clay-rich fractions are  coarse sand; trace fine gravel. Wet.	51   52   53   54   55   56   60   61   62   63   64   65   66   67   68   69				
70 71 72 73 74									7071727374				

#### EWMA Job #: **Environmental Waste** 203711 Boring #: Management Associates, LLC PROPERTY BOUNDARY 3Y-2 PO Box 5430, Parsippany, NJ, 07054 Install Date: Phone: (973) 560-1400 Fax:(973) 560-0400 3/2/05 OVERHEAD R.R. TIE ELECTRIC SUPPLY STRUCTURE Three Y-LLC Site Name: Site Location: 163 River Rd, Edgewater, NJ 3Y-2 Completion Date: 3/3/05 Geologist: Chris Viani **Drilling Co.: Summit Driller:** Summit Drilling Drill Rig: Auger rig BLOCK 93 Hammer Wt: Drop: Total Depth: Sampler Type: Split-Spoon G.W. Encountered: G.W. Stabilized: **BORING LOCATION SKETCH (N.T.S)** SAMPLE ID AND DEPTH PID/FID/OUA (METER UNITS) RECOVERY (INCHES) DEPTH (FT.) BLOWS/6.0" SOIL TYPE SOIL/GEOLOGICAL DESCRIPTION 3Y-2A 0 SILT, dark brown to black; trace sand and gravel (incl. concrete fragments). Very moist to wet. Ö 12 Black "shiny" staining at 2'-3', but no sheen or odors. OIS test = Negative. 3Y-2A 3Y-2E 0 6 Asphalt layer and asphalt fragments (4")/rusty red sand and gravel (2"). Moist. 12 OIS test (6.5') = Negative. 3Y-2B 0 0 12 SAND, fine to medium, well sorted. Color varies from brownish gray to grayish brown to reddish brown Trace gravel. Wet and "runny". No staining, odors, or sheens. 0 12 0 12 0 18 Ó 18 0 18 19 OIS test (19') = Negative. 20 3Y-2C Õ 12

SILT, light brown; little clay; trace fine sand. Occ. fine sand laminae. Moist.

No staining, sheens, or odors.

23

24

0

Ó

18

6

DEPTH (FT.)

10

_11 _12

13

14

15

16

17

18

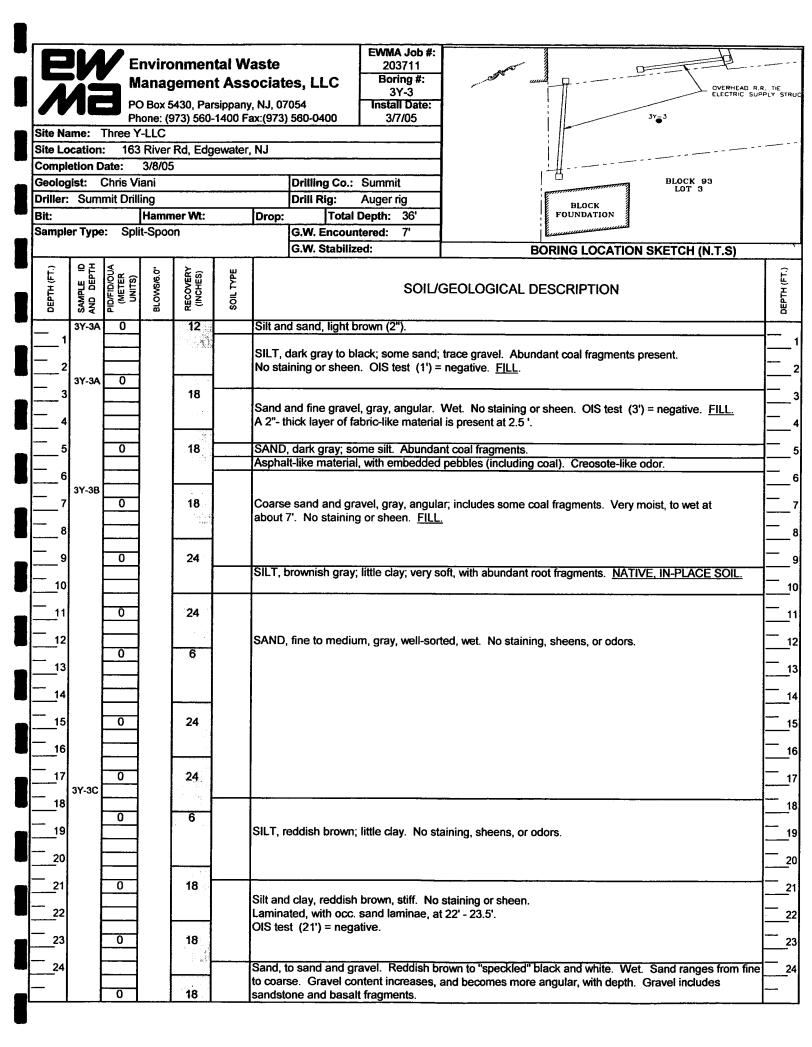
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#### EWMA Job #: **Environmental Waste** 203711 Management Associates, LLC Boring #: PROPERTY BOUNDARY 3Y-2 PO Box 5430, Parsippany, NJ, 07054 Install Date: Phone: (973) 560-1400 Fax:(973) 560-0400 3/2/05 OVERHEAD R.R. TIE ELECTRIC SUPPLY STRUCTURE Three Y-LLC Site Name: 163 River Rd, Edgewater, NJ Site Location: 3Y ~ 2 **Completion Date:** 3/3/05 Geologist: Chris Viani **Drilling Co.: Summit Driller:** Summit Drilling Drill Rig: Auger rig Bit: Hammer Wt: Drop: **Total Depth:** BLOCK 93 LOT 3 Sampler Type: Split-Spoon G.W. Encountered: 6' G.W. Stabilized: **BORING LOCATION SKETCH (N.T.S)** SAMPLE ID AND DEPTH RECOVERY (INCHES) TYPE DEPTH (FT. BLOWS/6.0' DEPTH (FT.) (METER UNITS) SOIL/GEOLOGICAL DESCRIPTION SOIL 26 SILT, light brown; little clay; trace fine sand. Occ. fine sand laminae. Moist. 26 0 6 No staining, sheens, or odors. 27 27 28 28 0 6 29 29 30 30 Ō 12 Silt with some clay, to clay with some silt (clay fraction increases with depth); reddish brown to pale 31 pinkish brown. Occ. fine sand laminae. Moist, stiff. No staining, sheens, or odors. 31 32 32 0 12 OIS test (32') = Negative. 33 33 34 34 35 0 18 35 36 36 3Y-2R ō 18 37 38 38 0 12 39 39 40 40 41 0 18 Several layers (up to 0.5" thick) of medim to coarse sand are present between 40' and 44'. 41 No staining in sand layers. 42 0 18 OIS test (43') = Negative. 43 44 12 0 45 45 SAND, medium, reddish brown; trace coarse sand and fine, subrounded gravel. Wet. 46 46 18 47 OIS test (47') = Negative. 48 3Y-4D 48 End of boring at 48' (split-spoon refusal/bedrock). 49 49



								T 534544 1-5-4-	,				
		E	nviro	nmen	tal W	aste		EWMA Job #: 203711					
							es, LLC	Boring #:	hum	ONEBREAD &	715		
A	45			430, Pai			-	3Y-3 Install Date:		OVERHEAD R.R. ELECTRIC SUPI	PLY STRUC		
							560-0400	3/7/05		3Y_3			
		Three \	/-LLC										
Site Lo				Rd, Edg	ewater,	NJ							
Compl			3/8/05	<u> </u>			·		ı <del>-</del> #				
Geolog	<u> </u>	Chris V					Drilling Co.:		gramman manner	BLOCK 93 LOT 3			
Driller: Bit:	Sum	mit Drii		er Wt:		ln	Drill Rig: Auger rig						
Sample	er Type	· Snl	it-Spoo			Drop:	G.W. Encoun		TOONDATION				
	<b>, ,</b> ,	. Ор.	ороо	<b></b>			G.W. Stabiliz		BORING LOCATION S	KETCH (N T S)			
-	요돈	≰	T 6	>_		ĺ		· · · · · · · · · · · · · · · · · · ·	2011110 2007111011	1121011 (11.1.0)	7		
ОЕРТН (FT.)	SAMPLE 1D AND DEPTH	PID/FID/OUA (METER UNITS)	BLOWS/6.0"	RECOVERY (INCHES)	SOIL TYPE			SOIL /	SEOLOGICAL DESCRIPTION	•	ОЕРТН (FT.)		
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27		0	-	18		OIS	test (27') = ne	egative.			27		
<b>一</b> 28			1	arranki. T		Sand,	to sand and g	ravel. Reddish b	rown to "speckled" black and white. Wet.	Sand ranges from fine	— ₂₈		
		0		12		to coar	rse. Gravel co	ontent increases,	and becomes more angular, with depth. G	ravel includes	— — ₂₉		
29	sandstone and basalt fragments. No staining, sheen, or odor.												
<del>-</del> 30											ー ₃₀		
		0	]	12									
31		<u> </u>									31		
32		<b></b>			İ						— ₃₂		
				0									
33											33		
34											— ₃₄		
L ,	3Y-3D	0		18		DACAL	T bioble for a	Manal Na atalah					
35		J		10			HERED BEDI		g, sheen, or odor. OIS test = negative.		35		
36			]								36		
— ₃₇							boring at 36'.	tes to 36', but aug	or refueal at 35'		_ ,,		
						i iliai si	poon peneual	ics to so, but aug	er refusar at 55 .		37		
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	<b>7</b> ]E					/, NJ, 07054		Install Date:	A second			
Site Na	me:	Three \		9/3) 560	3-1400 F	ax:(973) 560-0400		2/28/05				
Site Lo				Rd Ed	gewater,	N I	—	<del></del>				
Compl			3 1(146)	rta, La	gewater	1140			FENCE POST			
Geolog		Chris V	/iani			Drilling Co	· · · ·	ummit	·//			
Driller:						Drill Rig:		uger rig	/ /			
Bit:			_	ner Wt:		Drop: Tot	TELEPHONE POLE					
Sample	er Type	e: Spl	lit-Spoo			G.W. Enco						
		•	•			G.W. Stabi			BORING LOCATION SKETCH (N.T.S)	,		
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ОЕРТН (FT.)	SAMPLE ID AND DEPTH	PID/FID/OU/ (METER UNITS)	LOWS/6.0"	RECOVERY (INCHES)	SOIL TYPE			SOIL	ICEOLOCICAL DESCRIPTION	DEPTH (FT.)		
	M 0	(ME)	ð		<del> </del>			3011	GEOLOGICAL DESCRIPTION	Ē		
<u> </u>			- 66	1	· ·					씸		
<u> </u>	3Y-4A		4	6		CII T dod grov to	bloo	le como en acce	descripted (dishape for a Village and Olivia and Olivia			
'		<del> </del>	┨			No staining. Mois			lar gravel (diabase frags); little sand. Slight organic odor.	1		
_ 2		<b></b>	1		1	l to claiming. mole	· · · · · ·	to to	-	₂		
	3Y-4A	0	1	6	1				<u> </u>			
J3			1		<b>└</b>					3		
- ₄			-			SAND coarse to r	medir	um with cinde	ers, speckled gray-light gray. Moist. OIS test = negative.	_ ,		
'  `		0	1	12	1	FILL.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ani, wan on a	- Tiegauve.	*		
5			]					_ 				
			4			0410 6 1						
╣—-°	3Y-4B	<u> </u>	1		-	SAND, tine, brown	1; trac	ce to little slit.	No staining; no odors.	6		
<b>一</b> 7	01.45	0	i	18		Wet below abou	ıt 7'.		j-	- 7		
			<b>j</b>							· ·		
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<u> </u>		0	-	24	ł	<del> </del>						
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<u> - ,,</u>		0	1	12	1							
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12			1	ĺ	ŀ				<del> -</del>	₁₂		
		0	1	12		Color becomes b	browr	n to reddish bi	rown, with some thin (< 0.5") gray bands, at 12'.			
₁₃		ļ	1	•						13		
14		<del> </del>	-						-	_ ,		
[ <del></del> ]	3Y-4C	0	1	12	1				<b> </b> -	14		
15			1					-		15		
_ <u>,</u>							. h	4ma.a 4 = 1***	He along the to a trace of any			
16		0	1	12	1	SILT, pale reddish  No staining or odo	nc /	vn; trace to litt /erv moist to v	tle clay. Up to a trace of coarse sand and gravel in upper 3 '. Stiff.	16		
— ₁₇		<u> </u>		'*		Stanning or odd	.J. V	ory moist to v	-	- ₁₇		
			]						<u> </u> -			
18									[*	18		
— ₁₉		0	<b> </b>	6					<b> </b> -	ا , , –		
'"	į	<u> </u>	<b>i</b>						<b> </b> -	19		
20				<u> </u>					[-	_ ₂₀		
		0		12		Silt exhibits thin (	(<0.5	") gray bands	s, and a trace of fine sand below 20'.			
21									<u> </u> _	21		
— ₂₂								-	- 22			
		0		12								
23						SILT, light brown, v	with c	gray and redd	ish brown laminae; little clay. Very moist.	23		
— ₂₄						No staining or odo	rs.			_ ,		
<u> </u> []						Silt and Clay, light	pinki	sh brown: with	h gray and reddish brown laminae. Plastic and sticky.	24		
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		EWMA Job #:	<u> </u>	tal Waeto	nmer	nvie	<b>/</b> =						
		Environmental Waste Management Associates, LLC PO Box 5430, Parsippany, NJ, 07054 Phone: (973) 560-1400 Fax:(973) 560-0400  Mame: Three Y-LLC Location: 163 River Rd, Edgewater, NJ pletion Date:											
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				iountar N.I.	Dd Ede								
	FENCE POST			jewater, NJ	Na, Eag	Rivei							
		Summit	Drilling Co.:			iani	Chris V						
		Auger rig	Drill Rig:			ling	mit Dril	Sum	Driller:				
	TELEPHONE POLE		Hammer Wt: Drop: Total Depth: 45.5'  npler Type: Split-Spoon G.W. Encountered: 7'										
			G.W. Encour		on	it-Spoo	e: Spl	er Type	Sampl				
	BORING LOCATION SKETCH (N.T.S)	ea;	G.W. Stabiliz		T	Τ.	4	01	<u> </u>				
ОЕРТН (FT.)	GEOLOGICAL DESCRIPTION	SOIL		SOIL TYPE	RECOVERY (INCHES)	BLOWS/6.0"	PID/FID/OUA (METER UNITS)	SAMPLE 1D AND DEPTH	ОЕРТН (FT.)				
26	ľ					1							
27	[.				18	1	0		27				
28	pecomes more clayey with depth); light pinkish brown.	28 Silt and Clay, to clay with some silt											
_ 	e, and occ. fine sand laminae. Very moist. Plastic and sticky.												
	į	0 18											
30	-												
31	ļ		0 12										
32	-					ŀ	<u> </u>		- ₃₂				
_	-												
33		<u> </u>			18		0		33				
34	r, reddish brown; little silt and fine to medium sand. Gravel incl.	e gravel, angula	rse sand and fin	Coan		1			34				
- ₃₅	-	et.	ase peobles. Vi	ulaba	18		0		35				
- 36					:				₃₆				
	-  -					1							
37	-				18		0		37				
38	-  -				40				38				
- 39	-				12		"						
-	- coarse sand and fine gravel. Met	tich hroum: trace	D madium md	SANI					_ 40				
40	waise sailu aliu ilile gidvel. VVet.		taining or odors		i								
41	[-				18		0		41				
42	-								42				
- 43	-				24		0		_ 43				
*3	l:												
44	-		_44										
45	-		45 3Y-4D 0 18 BASALT highly fractured with s										
J	illed tractures. No staining or odors. BEDROCK, x) at 45.5 ft.	urea, with sand- er refusal (bedro	46 Split-spoon and auger refusal (be										
46	<u>[</u> -	,											
46 4			17										
46 47	-								<u> </u>				
_	-  -  -								48				
	coarse sand and fine gravel. Wet.	dish brown; trace	ase pebbles. W	SANI No st	18 12 18		0		35 36 37 38 39 40 41 41 42 43 44 45				

# Site Location: Completion Date:

#### Environmental Waste **Management Associates, LLC**

PO Box 5430, Parsippany, NJ, 07054 Phone: (973) 560-1400 Fax:(973) 560-0400 EWMA Job #: 203711 Boring #: 3Y-5

Install Date: 3/8/05

Three Y-LLC

163 River Rd, Edgewater, NJ

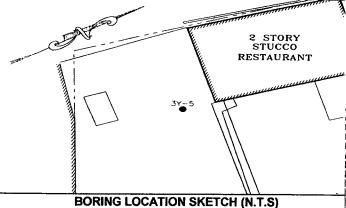
3/8/05

Geologist: Chris Viani Drilling Co.: Summit

**Driller:** Summit Drilling Drill Rig: Auger rig

Hammer Wt: Drop: Total Depth: 39' Sampler Type: Split-Spoon G.W. Encountered:

G.W. Stabilized:



						G.W. Stabilized:	BORING LOCATION SKETCH (N.T.S)					
DEPTH (FT.)	SAMPLE ID AND DEPTH	PID/FID/OUA (METER UNITS)	BLOWS/6.0"	RECOVERY (INCHES)	SOIL TYPE	SOIL/GEOLOGICAL DESCRIPTION						
1	3Y-5A	0		18		Silt, sand and angular gravel, brown	Wet. No staining or sheen. OIS test (1') = negative.	_ 1				
2				0		Sand and gravel, dark gray to black, Wet. No staining or sheen.	angular. Trace to some silt. Abundant coal and cinder fragments.	2 3				
4 5	3Y-5A	0		12		OIS test (4') = negative.	-  -  -	4				
6	3Y-5B					SILT, light gray to white. Moist.		6				
7	01-00	0		18				一 ₇				
_ ₈						Gravel and silt, black. Wet. Abunda	nt coal fragments.					
				0			<b> -</b>	— *				
9								9				
10							-	- ₁₀				
11		0		12		Silt and clay, grayish brown to brown	Very soft, wet. Many fine root fragments. No staining or sheen.	11				
12							<u> </u>	— ₁₂				
_{_13}		0		24			-	13				
14				0			-	14				
15			1	-				15				
— 16	ł	$\dashv$					-	- ₁₆				
17	3Y-5C	0		18		Silt and clay, brown to grayish brown. Noticeably tougher than overlying silt	Stiff. Sparse root fragments. No staining or sheen. and clay.	17				
18	3Y-5R						-	- ₁₈				
19		0		18		Large (>1") pieces of wood (possib	y cedar) encountered between 18' and 22'.	19				
20	ŀ	0		12			-  -	20				
21						OIS test (21') = negative.	-  -	21				
22	ł		ł				[-	22				
23	}			mpled				23				
24 				Not Sampled				24 				

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#### Environmental Waste Management Associates, LLC

PO Box 5430, Parsippany, NJ, 07054 Phone: (973) 560-1400 Fax:(973) 560-0400 EWMA Job #: 203711
Boring #: 3Y-5
Install Date: 3/8/05

Site	Name:	Three	Y-LLC

Site Location: 163 River Rd, Edgewater, NJ

Completion Date: 3/8/05

Geologist: Chris Viani Drilling Co.: Summit

Driller: Summit Drilling Drill Rig: Auger rig

Bit: Hammer Wt: Drop: Total Depth: 39'
Sampler Type: Split-Spoon G.W. Encountered:

Sample	r Type	: Spli	it-Spoo	ก		-	G.W. Encountered:				
							G.W. Stabilized: BORING LOCATION SKETCH (N.T.S)				
ОЕРТН (FT.)	SAMPLE ID AND DEPTH	PID/FID/OUA (METER UNITS)	BLOWS/6.0"	RECOVERY (INCHES)	SOIL TYPE			SOIL/	GEOLOGICAL DESCRIPTION	ОЕРТН (FT.)	
26 27		0		12		Silt and	d clay, brown, stiff.			— ₂₆ — ₂₇	
28				Not Sampled						28	
				Not Sa		SAND,	fine to coarse, reddi	sh brown;	from a trace to up to 50% gravel. Wet. No staining or sheen.	29 30	
31 32		0		18		OIS t	est (31') = negative.			$\frac{-}{21}$	
₃₃ ₃₄				Not Sampled						33	
35				Not S		Cobb	ele of weathered basa	alt at 35.5		34 35	
36 37		0		18						36 37	
38 39	3Y-5D	0		18		OIS t	est (38') = negative.			38 39	
						Auger	efusal at 38.5'.				
40										40	
41										41	
42										42	
43 4										43	
44 45										44 45	
46										46	
47										47	
48 49										48	
49 	ì									49	

								EWMA Job #:		
	N	E	nvir	onmer	ntal W	aste		203711 Boring #:	PROPERTY BOUNDARY	,
		N	lana	gemer	nt Ass	ociat	es, LLC	/		
	<b>1</b> E	P	O Box	5430, Pa	rsippan	y, NJ, 07	7054	3Y-6 Install Date:	./ /	
		Pi	hone: (	973) 560	-1400 F	ax:(973	) 560-0400	8/4/05	/ /	
		Three \					<del></del>		37-6	
Site Lo			8/4/0	r Rd, Ed	gewater	, NJ		w		
		Chris V		<u> </u>			Drilling Co.:	Summit	//	
Driller				-			Drill Rig:	Auger rig	/ /	
Bit:				mer Wt:		Drop:		Depth: 8'	<i>/</i> /	
Sample	er Type	: Spl	it-Spo			1	G.W. Encour			
<u> </u>							G.W. Stabilized: BORING LOCATION SKETCH (N.T.S)			
F.	SAMPLE ID AND DEPTH	§ " _	i.	₹ 6	μ̈					<u></u>
DEPTH (FT.)	필	PID/FID/OUA (METER UNITS)	BLOWS/6.0"	RECOVERY (INCHES)	SOIL TYPE			SOIL/	GEOLOGICAL DESCRIPTION	۔ د
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- ₂			1	1	Í	SUT	gray to black:	little eand: little a	ravel (incl. brick fragments). Dry.	
<b>"</b>		0	1	6	1	Joil 1, 5	gray to black,	illie sand, illie g	Tavel (inc. blick fragments). Dry.	_ 2
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5										_ 5
— ₆			ł						——————————————————————————————————————	
						Silt and	d coarse angu	ılar sand (mostly	coal fragments). Wet, with slight sheen.	_6
⁷	3Y-6 (6.5-7)	14		12						_ 7
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	76			54 <mark>30, P</mark> a				Install Date:	PROPERTY BOUNDARY	/			
				973) 560	-1400 F	ax:(973)	560-0400	8/4/05		,			
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Site Lo				Rd, Edg	<u>jewater</u>	, NJ			3Y_7 ,				
Compl	_		8/4/0	5					BLOCK 93				
Geolog							Drilling Co.:		LOT 2	,			
Driller:	Sum	mit Dril					Drill Rig:	Auger rig					
Bit:				ner Wt:		Drop:		Depth:	//				
Sample	er Type	: Sp	lit-Spoo	on			G.W. Encour	ntered:					
					BORING LOCATION SKETCH (N.T.S)	٠.							
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ОЕРТН (FT.)	SAMPLE ID AND DEPTH	PID/FID/OU/ (METER UNITS)	BLOWS/6.0"	RECOVERY (INCHES)	SOIL TYPE	1		SOIL //	GEOLOGICAL DESCRIPTION	-			
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— ₂	j		1	1		Silt. sa	and and angul	ar gravel, buff to	dark gray. Dry. Abundant cinders and coal fragments.	2			
<u></u>		0	1	6	1			a. g.a.o., aa to					
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I— .			1		1	Piece	of geotextile a	it 7'.		-			
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Environmental Waste Management Associates, LLC PO Box 5430, Parsippany, NJ, 07054 Phone: (973) 560-1400 Fax:(973) 560-0400  Site Name: Three Y-LLC Site Location: 163 River Rd, Edgewater, NJ	
PO Box 5430, Parsippany, NJ, 07054 Phone: (973) 560-1400 Fax:(973) 560-0400  Site Name: Three Y-LLC Site Location: 163 River Rd, Edgewater, NJ	
Site Name: Three Y-LLC Site Location: 163 River Rd, Edgewater, NJ	.' /
Site Location: 163 River Rd, Edgewater, NJ	
	/ / &
Completion Date: 8/4/05	, / 5
Geologist: Chris Viani Drilling Co.: Summit	/ / 05
Driller: Summit Drilling Drill Rig: Auger rig	
Bit: Hammer Wt: Drop: Total Depth:	/ //
Sampler Type: Split-Spoon G.W. Encountered:	
G.W. Stabilized: BORING LOCATION SE	KETCH (N.T.S)
SOIL/GEOLOGICAL DESCRIPTION  SOIL TYPE  SOIL TYPE  SOIL TYPE  SOIL TYPE  SOIL TYPE  SOIL TYPE  SOIL TYPE  SOIL TYPE  SOIL TYPE  SOIL TYPE  SOIL TYPE  SOIL TYPE  SOIL TYPE  SOIL TYPE  SOIL TYPE	Ę.
SOIL/GEOLOGICAL DESCRIPTION  SOIL TYPE  SOURTER  OUNTS)  SOUR FECOVERY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (FT.)  SOUR PROPERTY  (METER DEPTH (	DEPTH (FT.)
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SILT; little angular gravel; little sand; dark brown, with a few light gray and reddish	h brown bands.
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Angular sand and fine gravel, black. Mostly coal fragments. Wet.	6
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End of boring.	
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			lanag	jemen	ıt Ass	ociate	es, LLC	Boring #:		0
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Site Na				73) 300	*1400 [	1X.(913)	300-0400	3/6/03	3Y-9 / W	
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Site Lo					gewater,	NJ		·	, // &	
Compl			8/4/05	) 						
Geolog							Drilling Co.:		/ // 5	
Driller:	Sumi	nit Dril	ling				Drill Rig:	Auger rig	//	
Bit:			Hamm	er Wt:		Drop:	Total	Depth:	/	
Sample	er Type	: Spl	it-Spoo	n		<del></del>	G.W. Encoun		,' //	
i		•	•				G.W. Stabiliz		BORING LOCATION SKETCH (N.T.S)	
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ОЕРТН (FT.)	SAMPLE ID AND DEPTH	PID/FID/OUA (METER UNITS)	BLOWS/6.0"	RECOVERY (INCHES)	ä					DEPTH (FT.)
Ĕ	골집		/S/	8 8	SOIL TYPE			SOIL/	GEOLOGICAL DESCRIPTION	Ĕ
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<u> </u>			1			Joint, ai	igulai sano, a	nu graver. Gray	LO DIACK.	— '
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						Silt, ar	ngular sand, aı	to black.	_	
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—'			3Y-9	12		1			<u> </u>	7
— <u>,</u>			(6.5-7)			l				_ 8
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Site Na Site Lo Comple Geolog	cation etion D	Printer Yes	lanag D Box 5 none: (9 /-LLC B River 8/4/05	430, Par 973) 560- Rd, Edg	nt Ass rsippany -1400 Fa	ociates, LLC v, NJ, 07054 ax:(973) 560-0400	EWMA Job #: 203711 Boring #: 3Y-9 Install Date: 3/8/05	PROFERTY BOUNDARY  3Y-9  3Y-9	A 60 A
Driller:				<del></del>		Drill Rig:	Auger rig		
Bit:			Hamm			<del></del>	Depth:	//	
Sample	er Type	: Spl	it-Spoo	n		G.W. Encou		<u>'</u>	<del></del> -
	ΟŦ	4				G.w. Stabiliz	zea:	BORING LOCATION SKETCH (N.T.S)	
ОЕРТН (FT.)	SAMPLE ID AND DEPTH	PID/FID/OUA (METER UNITS)	BLOWS/6.0"	RECOVERY (INCHES)	SOIL TYPE		SOIL/G	GEOLOGICAL DESCRIPTION	ОЕРТН (FT.)
1						Silt, angular sand, a	and gravel. Gray	to black.	1
2 3				2		Wood, with creosite	odor.	-	2 3
4									4
5 6	:			:		Silt, angular sand, a	and gravel. Gray t	to black.	5 5
7			3Y-9	12				-	° ₇
8		·····	(6.5-7)			End of boring.		-	8
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12 13									12 13
14									13
15 16								-  -  -	15 1
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19 20									19 20
21									21
22 23								-  -	22 2
23 24								<u>-</u>	23 24
					, !			-	-

Site Name: Till Site Location: Completion Da Geologist: Confiler: Summer Bit: Sampler Type:	PO Box 5 Phone: (S hree Y-LLC 163 River hte: 8/4/05 hris Viani hit Drilling Hamm	6430, Pars 973) 560-1 Rd, Edge 5	t Assosippany 1400 Fa ewater,	ociates, LLC , NJ, 07054 ix:(973) 560-0400		BLOCK FOUNDATION BORING LOCATION S	BLOCK 9 LOT 3	93	
DEPTH (FT.) SAMPLE ID AND DEPTH	PID/FID/OUA (METER UNITS) BLOWS/6.0"	RECOVERY (INCHES)	SOIL TYPE			GEOLOGICA	AL DESCRIPTION	NETOT (N.1.3)	ОЕРТН (FT.)
1	0	18		Silt and angular sand	d, black to gray; s	some fine angu	lar gravel. Mostly cinders.		123456789101112131415161718192021222324

Environmental Waste Management Associates, LLC PO Box 5430, Parsippany, NJ, 07054 Phone: (973) 560-1400 Fax:(973) 560-0400  Site Name: Three Y-LLC Site Location: 163 River Rd, Edgewater, NJ										R. TIE PPLY STRUCTURE	
Compl			8/4/05		,			-			
Geolog	jist: (	Chris V	iani				Drilling Co.: Summit				
Driller:	Sum	mit Drill				Drill Rig: Auger rig					
Bit:				ner Wt:		Drop: Total Depth:			1	PLOCK 92	
Sample	er Type	: Spl	it-Spoo	on		G.W. Encountered:				BLOCK 93	
	,			,	·		G.W. Stabiliz	zed:		BORING LOCATION SKETCH (N.T.	.S)
DEPTH (FT.)	SAMPLE ID AND DEPTH	PID/FID/OUA (METER UNITS)	BLOWS/6.0"	RECOVERY (INCHES)	SOIL TYPE			SOIL/	GEOLOGIC	CAL DESCRIPTION	ОЕРТН (FT.)
1 2 3 4 5 6 6 7 7 8 8 9 10 11 11 12 12 13 15 16 16 17 17 18 19 19 12 20 1 21 1 22	3Y-11 (2-2.5)			18			d angular sar	nd, black to gray;	some fine ang	gular gravel. Mostly cinders.	12345678910111213141516171819202122
23 24 											23 24



### Environmental Waste **Management Associates, LLC**

PO Box 5430, Parsippany, NJ, 07054 Phone: (973) 560-1400 Fax:(973) 560-0400

EWMA Job#: 203711 Boring #: 3Y-12 Install Date:

8/4/05

Site Name:	Three	Y-L	LC
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163 River Rd, Edgewater, NJ Site Location:

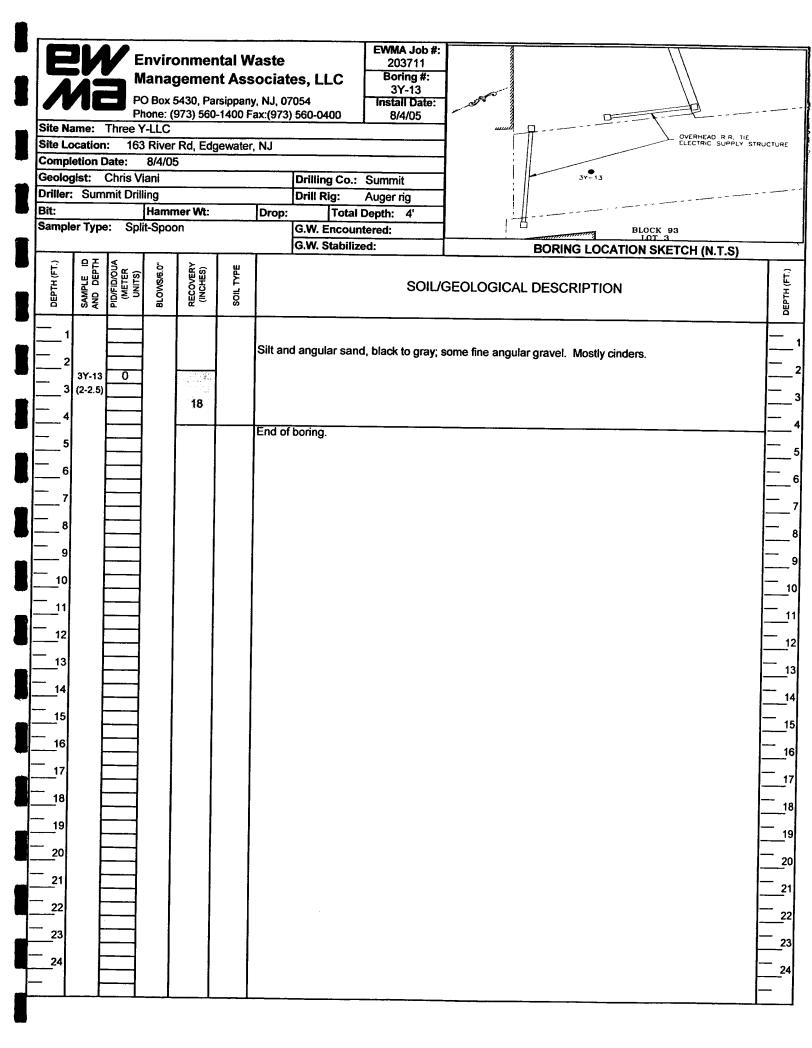
**Completion Date:** 8/4/05

Geologist: Chris Viani **Drilling Co.:** Summit

Driller: Summit Drilling Drill Rig: Auger rig

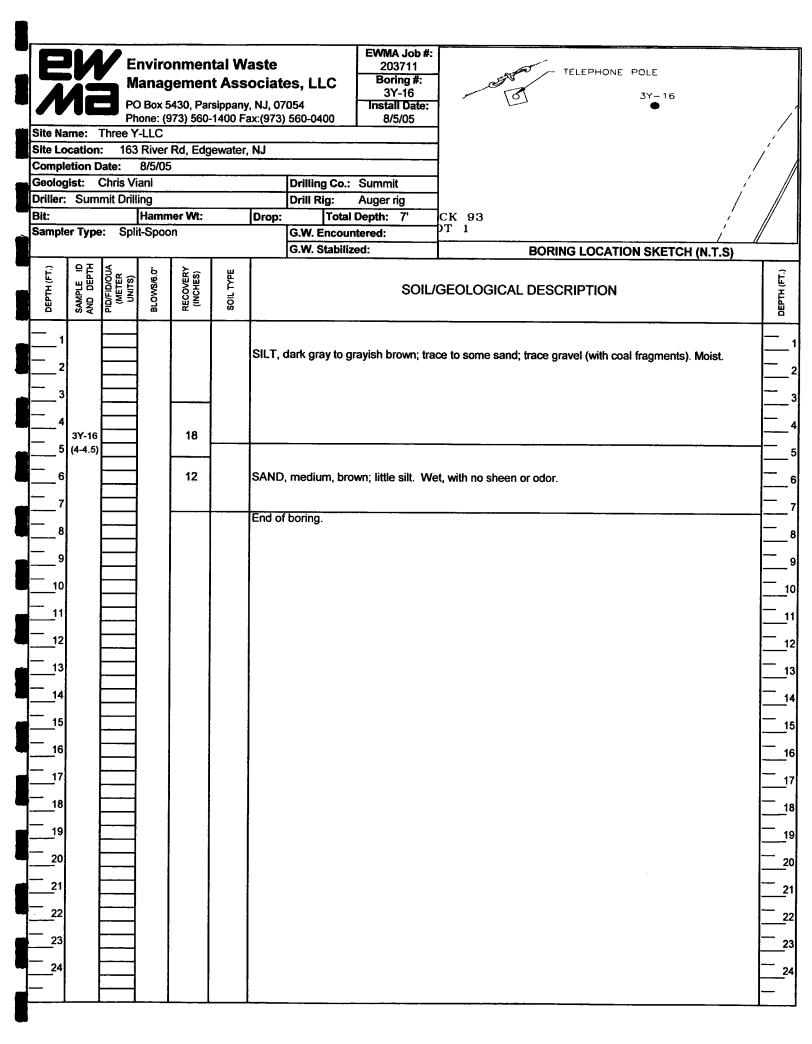
Hammer Wt: Drop: Total Depth: 4' OVERHEAD R.R. TIE ELECTRIC SUPPLY STRUCTURE 3Y-12

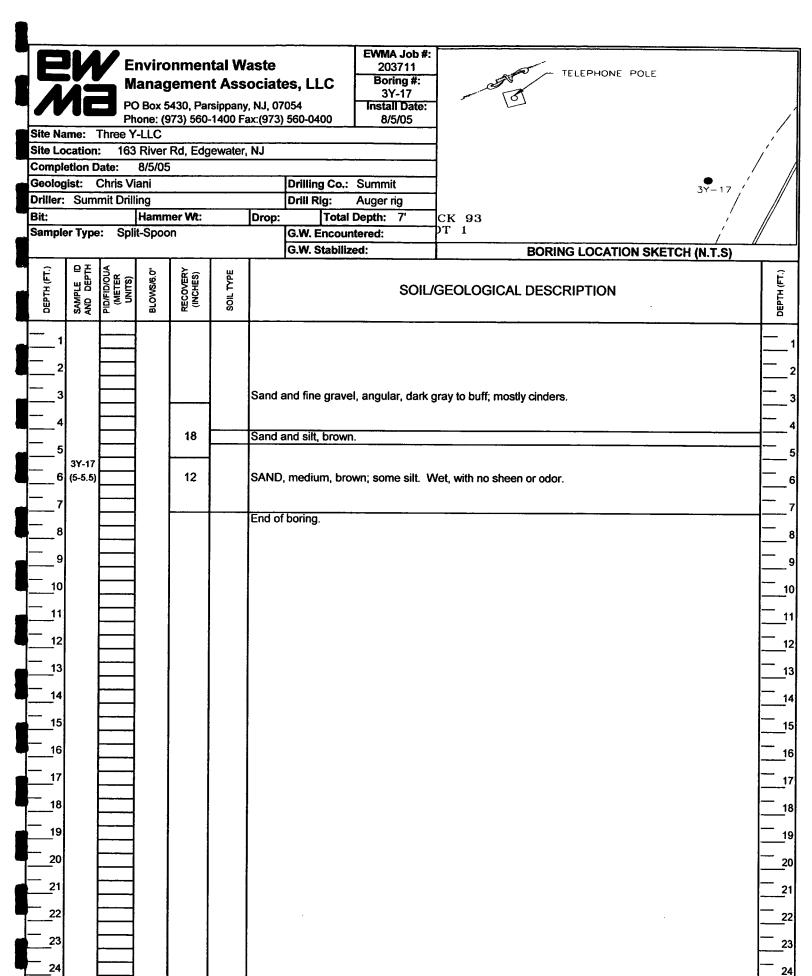
Sampler Ty	pe: Spli	t-Spoo	n		G.W. Encountered:	BLOCK 93	
			,		G.W. Stabilized:	BORING LOCATION SKETCH (N.T.S)	
DEPTH (FT.) SAMPLE ID	PID/FID/OUA (METER UNITS)	BLOWS/6.0"	RECOVERY (INCHES)	SOIL TYPE	SOIL		DEPTH (FT.)
1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1 2 3Y-1	12 20	BLOWS/6.0"	RECOVERY (INCHES)	SOIL TYPE		GEOLOGICAL DESCRIPTION  ; some fine angular gravel. Mostly cinders. Mixed with asphalt/tar	1 2 3 4 5 6 7 8 8 9 10 11 11 12 13 14
15 16 17 18 19 20 21 21 22 23 23							15 16 17 18 20 21 22 23 24



#### EWMA Job #: **Environmental Waste** 203711 TELEPHONE POLE Boring #: Management Associates, LLC 3Y-6 PO Box 5430, Parsippany, NJ, 07054 Install Date: Phone: (973) 560-1400 Fax:(973) 560-0400 8/4/05 Site Name: Three Y-LLC Site Location: 163 River Rd, Edgewater, NJ 8/4/05 Completion Date: Geologist: Chris Viani **Drilling Co.: Summit Driller:** Summit Drilling Drill Rig: Auger rig Hammer Wt: CK 93 Drop: **Total Depth:** Sampler Type: Split-Spoon G.W. Encountered: G.W. Stabilized: **BORING LOCATION SKETCH (N.T.S)** SAMPLE ID AND DEPTH DEPTH (FT. BLOWS/6.0" SOIL TYPE SOIL/GEOLOGICAL DESCRIPTION 3Y-14 (0-0.5)Silt, sand and gravel, dark brown; with cinders and brick fragments. 18 Angular gravel and sand, "speckled" coloration- light gray to black. Mostly cinders. 0 18 37 SILT, brown; little sand; little gravel; with black oily staining. 3Y-14 4 (4-4.5)SAND, medium, brown, with gray staining in upper section. Wet. 0 18 0 6 10 0 6 SAND, fine, reddish brown; little to some silt; wet. 11 12 12 13 13 18 14 0 15 16 17 9 18 3Y-14 17-17.5 18 0 12 SILT, reddish brown; little to some fine sand; trace clay. 19 20 20 End of boring. 21 22 23

		<b>/</b> F	nvir	onmen	ıtal W	laeta		EWMA Job #: 203711		
							es, LLC	Boring #:	TELEPHONE POLE	
A	45			5430, Pa			-	3Y-15 Install Date:	- B	
		PI	none: (	973) 560	-1400 F	ax:(973)	560-0400	8/5/05		1
		Three Y							<u>,</u>	/
Site Lo				Rd, Edg	gewater	, NJ			/	
Compl		ate: Chris V	8/5/0	<u> </u>			Drilling Co.:	Cummit	3Y-15● /	
Driller:				<del></del> -			Drill Rig:	Auger rig	/ /	
Bit:				ner Wt:		Drop:		Depth: 7'	СК 93	
Sample	er Type	: Spl	it-Spo	on			G.W. Encoun	itered:	T 1 /	
		·	r		<del>,</del>		G.W. Stabiliz	ed:	BORING LOCATION SKETCH (N.T.S)	
Ē	SAMPLE ID AND DEPTH	PID/FID/OUA (METER UNITS)	9.0	ξ <u>ι</u> ξ <u>ι</u>	E E					£
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	3Y-15			40		CANID			., , , , , , , , , , , , , , , , , , ,	
6	(5-5.5)			12		SAND	, meaium, bro	wn, wet. Slight b	black staining in top 1".	_ ⁶
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8						End of	boring.		_	8
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#### EWMA Job #: **Environmental Waste** 203711 TELEPHONE POLE Boring #: Management Associates, LLC 3Y-18 0 PO Box 5430, Parsippany, NJ, 07054 Install Date: Phone: (973) 560-1400 Fax:(973) 560-0400 8/5/05 Three Y-LLC Site Name: Site Location: 163 River Rd, Edgewater, NJ Completion Date: 8/5/05 Geologist: Chris Vlani **Drilling Co.: Summit Driller:** Summit Drilling Drill Rig: Auger rig Hammer Wt: Drop: Total Depth: CK 93 DT 1 Sampler Type: Split-Spoon G.W. Encountered: G.W. Stabilized: **BORING LOCATION SKETCH (N.T.S)** SAMPLE 1D AND DEPTH PID/FID/OUA (METER UNITS) DEPTH (FT.) RECOVERY (INCHES) BLOWS/6.0" SOIL TYPE SOIL/GEOLOGICAL DESCRIPTION Coarse sand and fine gravel, brown; mostly cinders. 6 3Y-18 SAND, medium, brown; some silt. Moist to wet at 6'. No sheen or odor. 12 (5-5.5)End of boring. 10 13 14 15 16 16 17 18 18 19 20 20 21 22 22 23 23 24 24

EA	1E	B M	lanag O Box 5 none: (9	- 5430, Pai	n <b>t Ass</b> rsippany	ociate	es, LLC 7054 ) 560-0400	EWMA Job #: 203711 Boring #: B-19 Install Date: 11/21/05		8-19	OVERHE	EAD R.R. TIE
Site Na Site Lo		Three-Y		liver Roa	ed Edg	ewater	N.I	<u> </u>			-	
Compl			11/21/		IG, EGS	SWGIO.,	110					
Geolog		Chris Vi					Drilling Co.:	Talon Drilling		<del>-   -  </del>	BLOCK 93	
Driller:							Drill Rig:	Geoprobe		Paramanananananananananananananananananan	BLOCK 93 LOT 3	
Bit:				ner Wt:		Drop:		Depth: 8'		BLOCK FOUNDATION		
Sample	er Type	): 4-fc	ot mad	crocore			G.W. Encoun					
			<del></del>	<del></del>	<del></del>		G.W. Stabilize	ed:		BORING LOCATION S	SKETCH (N.T.S)	
DEPTH (FT.)	SAMPLE ID AND DEPTH	PID/FID/OUA (METER UNITS)	BLOWS/6.0"	RECOVERY (INCHES)	SOIL TYPE			SOIL/	GEOLOGICAL [	DESCRIPTION		DEPTH (FT.)
1 2				36		Silt and	d fine sand, da	ark to light brown	; little to some coa	rse sand; little to some ç	gravel; cinders and	<u> </u>
3		2				Wet at		morr.				²
4						OLT.	76. 1. 11. /010					4
— ₅					<u> </u>	Asphal	offwhite. (2"). It/tar, solid and	d hard, (1' thick)	with 1/2" of geotext	ile-like fabric at bottom.		- <b> </b> ₅
	- 10	15										<u> </u>
— ⁶	B-19 6-6.5			36		SAND,	, coarse; dark	brown to black; li ke fabric at 6.5'.	ittle gravel; little silt	; coal frags and cinders	common.	6
7	0.0.0				<b>i</b> '				nt, discontinuous s	heen at the bottom.		- ₇
_ 。		7			<b>i</b> '		-					
°				<b> </b>	<b> </b>	End of	boring.					<del>- </del> 8
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#### EWMA Job #: **Environmental Waste** 203711 4 STORY BRICK Boring #: Management Associates, LLC FACTORY B-20 PO Box 5430, Parsippany, NJ, 07054 Install Date: Phone: (973) 560-1400 Fax:(973) 560-0400 11/21/05 Three-Y, LLC Site Name: 163 Old River Road, Edgewater, NJ Site Location: Completion Date: 11/21/05 Geologist: Chris Viani **Drilling Co.:** Talon Drilling B-120 Driller: Drill Rig: Geoprobe Hammer Wt: Drop: Total Depth: Sampler Type: 4-foot macrocore G.W. Encountered: G.W. Stabilized: **BORING LOCATION SKETCH (N.T.S)** SAMPLE ID AND DEPTH DEPTH (FT.) RECOVERY (INCHES) BLOWS/6.0" SOIL TYPE SOIL/GEOLOGICAL DESCRIPTION SILT, brown to black; little to some sand; little to some gravel; heterogeneous texture. Cinders, brick 0 36 fragments common. 1 5 SILT, offwhite. (2"). B-20 18 Heterogeneous mixture of coal fragments, coarse sand, cinders, and coal dust. 5.5-6 36 Ô Several inches of coal fragments and geotextile-like fabric mixed with solid, black asphalt or tar at 6'. Wet below 6'. End of boring. 18 19 20

24

DEPTH (FT.)

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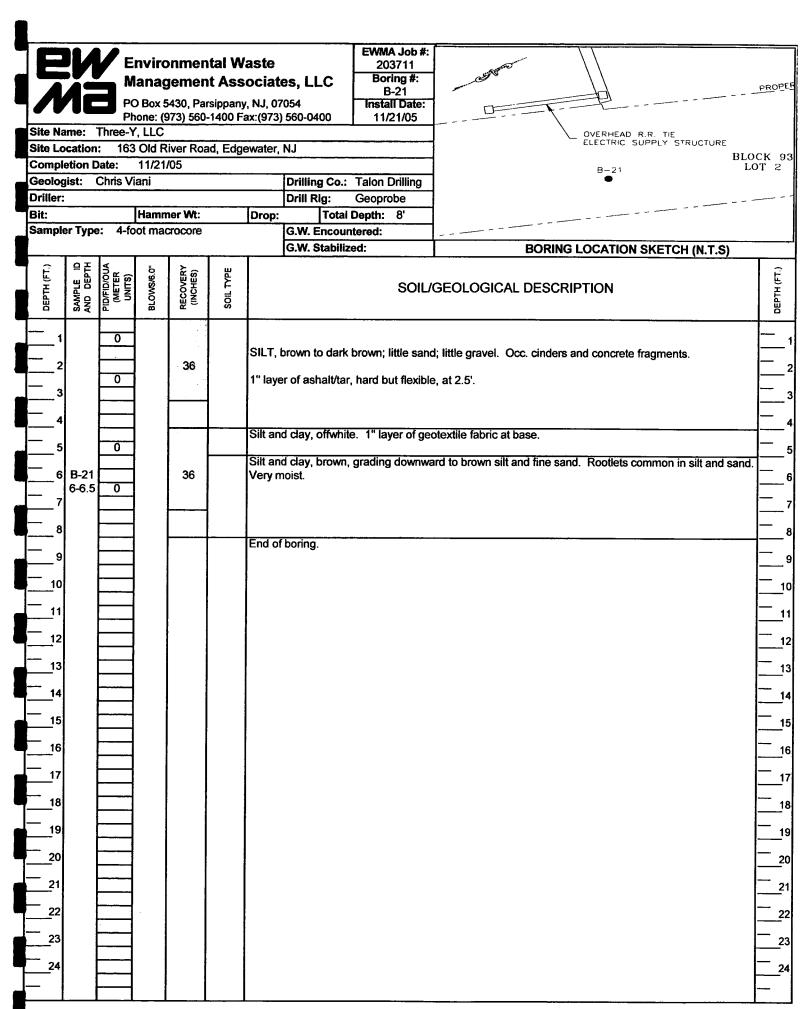
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#### EWMA Job #: Environmental Waste RAISED CONCRETE PLATFORM 203711 **Management Associates, LLC** Boring #: B-22 PO Box 5430, Parsippany, NJ, 07054 Install Date: PROPERTY BOUNDARY Phone: (973) 560-1400 Fax:(973) 560-0400 11/21/05 Three-Y, LLC Site Location: 163 Old River Road, Edgewater, NJ **Completion Date:** 11/21/05 OVERHEAD R.R. TIE ELECTRIC SUPPLY STRUCTURE Geologist: Chris Viani **Drilling Co.:** Talon Drilling BLOCK 93 Driller: Drill Rig: Geoprobe Bit: Hammer Wt: Drop: Total Depth: 8' Sampler Type: 4-foot macrocore G.W. Encountered: G.W. Stabilized: **BORING LOCATION SKETCH (N.T.S)** SAMPLE ID AND DEPTH PID/FID/OUA (METER UNITS) RECOVERY (INCHES) DEPTH (FT. BLOWS/6.0 SOIL TYPE SOIL/GEOLOGICAL DESCRIPTION 0 SILT, brown; little to some sand; little to some gravel. Brick and concrete fragments abundant. 36 0 Coarse sand and fine gravel, black, angular; coal and cinders common. Wet below 2'. **B-22** 2 5-5.5 36 Brown silt and clay, grading downward to massive fine sand and some silt. 0 End of boring. 10 11 12 13 13 14 15 16 17 18 18 19 19 20 20 21 21 23 23 24 24

#### EWMA Job #: **Environmental Waste** RAISED CONCRETE 203711 Boring #: Management Associates, LLC B-23 B-23 PO Box 5430, Parsippany, NJ, 07054 Install Date: PROPERTY BOUNDARY Phone: (973) 560-1400 Fax:(973) 560-0400 11/21/05 Three-Y, LLC Site Name: Site Location: 163 Old River Road, Edgewater, NJ 11/21/05 OVERHEAD R.R. TIE ELECTRIC SUPPLY STRUCTURE Completion Date: Geologist: Chris Viani **Drilling Co.: Talon Drilling** BLOCK 93 **Driller:** Drill Rig: Geoprobe Bit: Hammer Wt: Drop: Total Depth: 8' Sampler Type: 4-foot macrocore G.W. Encountered: G.W. Stabilized: **BORING LOCATION SKETCH (N.T.S)** PID/FID/OUA (METER UNITS) RECOVERY (INCHES) ᄯ BLOWS/6.0" SAMPLE 1 SOIL/GEOLOGICAL DESCRIPTION SOIL SILT, brown; little sand. 0 Concrete. 36 0 GRAVEL, fine, angular, dark brown to black; little sand; trace silt; wet. 0 **B-23** 36 6-6.5 28 SAND, coarse, black to dark gray; trace to some silt and clay; wet. Abundant cinders. Layers of black-stained geotextile fabric at 5' and 7'. End of boring. 10 12 15 16

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DEPTH (FT.)

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## Three-Y, LLC Site Name: Site Location: 163 Old River Road, Edgewater, NJ Completion Date: 11/21/05 Geologist: Chris Viani Driller: Bit: Hammer Wt: Sampler Type: 4-foot macrocore

Environmental Waste **Management Associates, LLC** 

PO Box 5430, Parsippany, NJ, 07054 Phone: (973) 560-1400 Fax:(973) 560-0400 EWMA Job#: 203711 Boring #: B-24

Install Date: 11/21/05

RAISED CONCRETE PLATFORM

PROPERTY BOUNDARY

OVERHEAD R.R. TIE ELECTRIC SUPPLY STRUCTURE

BLOCK 93

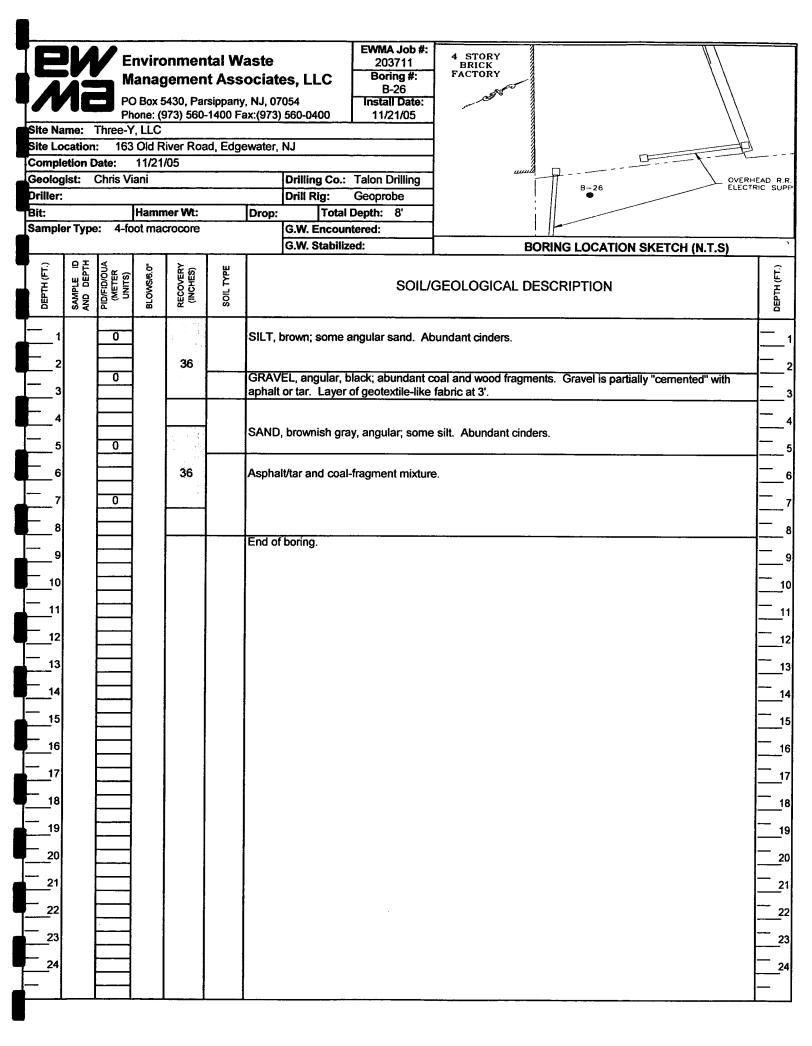
**Drilling Co.:** Talon Drilling Drill Rig: Geoprobe Drop: Total Depth: 8'

G.W. Encountered: G.W. Stabilized:

:	BORING LOCATION SKETCH (N.T.S)

	,					G.W. Stabilized:	BORING LOCATION SKETCH (N.T.S)	
ОЕРТН (FT.)	SAMPLE ID AND DEPTH	PID/FID/OUA (METER UNITS)	BLOWS/6.0"	RECOVERY (INCHES)	SOIL TYPE	SOIL/	GEOLOGICAL DESCRIPTION	DEPTH (FT.)
1 2 3		0		36		SILT, brown; little to some sand, trac Wet at 2'.	e gravel; abundant cinders.	1 2 3
4 5		0				GRAVEL, black, angular, some silt; s	some sand. Abundant coal frags. Wet.	4
6 	B-24 6.5-7	0		36		Brown silt and clay, grading downwar	rd into massive silt and fine sand. Wet.	6
8						End of boring.		8
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#### EWMA Job #: 4 STORY BRICK FACTORY **Environmental Waste** 203711 Boring #: Management Associates, LLC B-25 PO Box 5430, Parsippany, NJ, 07054 Install Date: Phone: (973) 560-1400 Fax:(973) 560-0400 11/21/05 Site Name: Three-Y, LLC Site Location: 163 Old River Road, Edgewater, NJ Completion Date: 11/21/05 B-25 Chris Viani **Drilling Co.:** Talon Drilling Geologist: OVERHEAD R.R. ELECTRIC SUPP Driller: Drill Rig: Geoprobe Hammer Wt: Drop: Total Depth: 8' Sampler Type: 4-foot macrocore G.W. Encountered: G.W. Stabilized: **BORING LOCATION SKETCH (N.T.S)** SAMPLE ID AND DEPTH PID/FID/OUA (METER UNITS) RECOVERY (INCHES) TYPE DEPTH (FT.) BLOWS/6.0" DEPTH (FT.) SOIL/GEOLOGICAL DESCRIPTION SOIL SILT, brown; some sand. Ō B-25 36 SAND, coarse, brown; little to some silt. Abundant cinders and coal fragments. 2-2.5 0 Wet below 2'. SAND, coarse, angular, gray to dark gray, mostly cinders; trace to little gravel; trace to some silt. Wet. 0 36 0 End of boring. 12 13 15 16 16 18 18 19 19 20 23



12					4-1 14			EWMA Job #:	\\\	MACADAM AND GRAVE
				onmen				203711 Boring #:		
A	45			_			tes, LLC	B-27	M AND GRAVEL	BLOCK 9: LOT 1
		D PO	O Box :	5430, Par 973) 560-	sippan -1400 F	y, NJ, 07 Fav:(973	7054 3) 560-0400	Install Date: 11/21/05	M AND GRAVEL	
Site N	ame:	Three-\			1700.	αλ.ζυ. υ	7 500-0-100	11/21/00	\\ \	-97
	ocation			River Roa	ıd, Edç	jewater	NJ		RAISED PLATFO	-27 CONCRETE RM
	letion C		11/21	/05					\\	
Geolog		Chris V	iani				Drilling Co.:		\	TACIAL DA
Driller:	<u>:                                    </u>		1	180.		1	Drill Rig:	Geoprobe		PROPERTY BOUNDAR
Bit:	ler Type	•• 4-fc	1	ner Wt:		Drop:	G.W. Encou	Depth: 8'		
	61 .76-	·	/VI	000.5			G.W. Stabiliz		BORING LOCATION S	KETCH (N.T.S)
<u> </u>	9.5	<u>∢</u>	<u> </u>	_{&gt; -}		T			BOILING MOORITION &	
ОЕРТН (FT.)	SAMPLE ID AND DEPTH	PID/FID/OUA (METER UNITS)	BLOWS/6.0"	RECOVERY (INCHES)	SOIL TYPE			SOIL	GEOLOGICAL DESCRIPTION	, БЕРТН (FT.)
1		0				SILT,	brown; some	sand; occ. concre	ete fragments.	
_ ₂	,	<u> </u>		36						<b> </b>
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3	1		]			CANI	`	···lar blook: little o	ili. Abundant sinders and seel fromments	<u> </u>
_ 4	ıl		1	1 1		SAIN	J, Waise, any	Ulai, Diack, illie s	ilt. Abundant cinders and coal fragments.	- ₂
<del>_</del>			1	(Again)		Wet b	pelow 4'.			
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PROJECT NUMBER BORING NUMBER 332898.QT.20.23 SB-13

CH2MHILL

SHEET 1

OF 1

-	99°				SOIL BORING	LOG
ROJE	CT : Quar	ta Resou	rces RI/F	S DRILLIN	IG CONTRACTOR : Summit Drilling	LOCATION : Edgewater, NJ
EVAT	ION:			NORTH		
RILLIN	G METH	OD AND	EQUIPME		" Hollow Stem Auger/Spilt Spoon	
ATER	<b>LEVELS</b>	4.0' bgs		START	: 8/3/05 @ 0950 END : 8/3/05 @ 1100	LOGGER: A. Harclerode
EPTH B	ELOW SU	IRFACE (F	-T)	STANDARD	CORE DESCRIPTION	COMMENTS
	INTERVA	L (FT)		PENETRATION		
	l	RECOVE	RY (IN)	TEST	SOIL NAME, USCS GROUP SYMBOL, COLOR,	DEPTH OF CASING, DRILLING RATE,
	1		#/TYPE	RESULTS	MOISTURE CONTENT, RELATIVE DENSITY,	DRILLING FLUID LOSS,
	ł			6"-6"-6"-6"	OR CONSISTENCY, SOIL STRUCTURE,	TESTS, AND INSTRUMENTATION.
		<u> </u>		{N}	MINERALOGY.	PID (ppm): Breathing Zone Headspace
	0 - 2'	0	1/88	40, 35, 32, 33 {67}	Slough	N/A
				ι (α/ /		7
	2 - 4'	16	2/55	15, 18, 22, 25	2.7 - 4.0': Coarse sand w/ cinder/slag/fill (SP), black,	0.2
_				{40}	dry to wet with depth, medium dense, layered	_
		İ	1		cardboard-like material mixed with tar-like product @ 3.0 to 3.5' with obvious petroleum product odor,	
-	l				saturated @ 4' bgs	
5	4 - 6'	6	3/55	8, 12, 9, 7	5.5 - 6.0': Gravelly sand w/ crushed brick and	1.0 0.0
				{21}	concrete/fill (SP), various colors, wet, loose	
-	6 - 8'	12	4/55	22, 16, 8, 7	7 - 8': Same as above	1.1
_				{24}		_
_		1				_
	8 - 10'	10	5/SS	5, 7, 3, 2	9.2 - 10.0': Peaty, organic, silty clay (PT/OL), very	0.5
-	Ì			{10}	dark grey, 10 YR, 3/1, soft, elastic, some fibrous wood	-
10			Į į		11000	
_	10 - 12'	12	6/SS	4, 5, 4, 5	11 - 12': Same as above	0.3
-	}			{9}		-
_					Boring terminated @ 12' bgs	
_	i	1	}		borning tollination (g) 12 bgs	
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DEPARTMENT OF ENVIRONMENTAL PROTECTION

#### MONITORING WELL PERMIT

**NJDEP** 

BUREAU OF WATER ALLOCATION

PO BOX 426

TRENTON, NJ 08625-0426

VALID ONLY AFTER APPROVAL BY THE D.E.P.

COORD#:

Address

Driller Summit Drilling Co., Inc. Central Jersey Industrial Park Address Chimney Rock Road, Building 9W

Bound Brook, NJ 08805

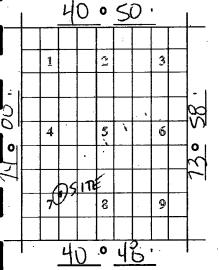
arneter Well(s) Inches	Proposed 35 Feet
of Wells oplied for (max. 10)	Will pumping equipment yes No. No. No. No. No. No. No. No. No. No.
pe of Well se reverse) Monitor	If Yes, give pump capacity cumulative GPM

#### LOCATION OF WELL(S)

Municipality Edge Water

State Atlas Map No.

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



34-MW1

PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM) NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: **EASTING:** OR LONGITUDE: LATITUDE:

OR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

Spill Site

**Underground Storage Tank Site** 

- ☐ ISRA Site
- Operational Ground Water Permit Site
- ☐ CERCLA (Superfund) Site

Pretreatment and Residuals Site

- Water and Hazardous Waste Enforcement Case

CASE I.D. Number

Water Supply Aquifer Test Observation Well

**BUREAU OF WATER ALLOCATION** 

**WELL PERMIT APPROVED** 

N.J. D.E.P.

FEB 1 6 2005

This Space for Approval Stamp

Other (explain)_

For monitoring purposes only

## New Jersey Department of Environmental Protection Bureau of Water Allocation

Well Permit Number 2600073823

•	MUNITURING V	VELL F	<u>KECUKD</u>		Atlas Sheet Co	ordinates
OWNER IDENTIFICATION THREE	Y LLC				261427	<u>'6</u>
Address 115 RIVER RD.						
City Edgewater	State New Jers	ey		Zip C	ode <u>07020</u>	
WELL LOCATION - If not the same as o	wner please give address	O	wner's Well N	10. <u>3Y-11</u>	n w//	
County Bergen Municipa	lity Edgewater Boro		Lot No.	1,2 Bloc	ck No. 93	
Address 163 RIVER RD. THREE Y LLC	DEVELOPMENT					
WELL USE Monitoring		DA	TE WELL ST	ARTED	3-3-05	
				_	3-3-05	
, WELL CONSTRUCTION	Note: Measure all depths	Depth to	Depth to	Diameter	Material	Wat /Dating
Total Depth Drilled 22 ft.	from land surface	Top (ft.)		(inches)	- Wateriai	Wgt./Rating (lbs/sch no.)
Finished Well Depth 22 ft.	Single/Inner Casing	+3	12	а	PVC	pch 40
Borehole Diameter:	Middle Casing					PUTT
Top & in.	(for triple cased wells only)					
Bottom & in.	Outer Casing (largest diameter)					
Well was finished: Above grade	Open Hole or Screen (No. Used , 020 )	12	22	a	Prc	och 40
If finished above grade, casing height (stick up) above land surface + 3 ft.	Blank Casings (No. Used )					
	Tail Piece					
Steel protective casing installed?  Yes No	Gravel Pack	10	22		More #2	
Static Water Level after drilling 8 ft.	Grout	0	10		Neat Cement Bentonite	188 lbs
Water Level was Measured Using Fage			Grouting Metho	\d 1	Trene	
Well was developed for hours			Drilling Method		Quaer	
at gpm		<u> </u>		GEOLOG	<u> </u>	
Method of development		No.	te each denth when		scountered in consolida	ted
Pump Capacity gpr	m		mations		A A	
Pump Type	<b>~</b> / .	10	-5 gr	ry & b	lockpare	d. fill
	of Rig <u>B6/</u>	_   5	-20 BOA	ur si	Ity F-M	DONA
Health and Safety Plan Submitted?	□No		trace 1	m a	shel	<u> </u>
Level of Protection used on site (circle one)	None (D) C B	A 3		0	le che	
		عد ا	silty	OUX 4	tan brow	70
•			J	1		
I certify that I have constructed the above re		_			······································	
accordance with all well permit requirement rules and regulations.	ts and applicable State	-			<u> </u>	<del></del>
Drilling Company SUMMIT DRILLING C	O_INC				L LOCATION	
Well Driller (Print) Mott Raa	h		<del></del>		NTAL DATUM)	
Driller's Signature Matt Ra	ab			E COORDI	NATE IN US SURV	EY FEET
Registration No. 1577	Date 3 130/05	NO	RTHING:		EASTING:	
				OR		
		LAT	TTUDE: 0	• "	LONGITUDE: 0	' "

COPIES:

**DRILLER** 

**OWNER** 

**HEALTH DEPARTMENT** 

ORIGINAL: DEP W

DWR-133M

## STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION TRENTON, NJ

LESS CHANGE.
continue with a second
Permit No. 260007549

Mail Ta	G WELL PERMIT Permit No. 2600075496
	COORD#: 2014272
owner THREE Y, LLC	Driller SUMMIT DRILLING CO
Address 115 RIVER ROAD	Address 9w CHIMNEY ROCK ROAD
EDGEWATER, NJ 07020	BOURD BROOK, NJ 08805
Name of Facility THREE Y	Diameter 2 Proposed 30
11 2 0	# of Wells Will pumping equipment
L-DGEWATZL, NJ	Applied for (max. 10) be utilized? YES NO Type of Well (see reverse) MONITOR capacity WA cumulative GPM
	N OF WELL(S)
Lot # (2 Municipality County GYNGSN)	Draw sketch of well(s) nearest roads,buildings, etc. with
	marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.
State Atlas Map No	
90°50'	GORGE RD
1 2 3	50'
	MW-2 150' 150' 150' 150'
6 6 0 1	mw-2 or   7
6/2	3
	€
7 8 9 p	N 1
NI STA	WELL LOCATION (NAD 83 HORIZONTAL DATUM) ATE PLANE COORDINATE IN US SURVEY FEET
NORTHING:	EASTING: OR LONGITUDE: ""
OR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPI	
THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:	This Spac were permoaperover.  N.J. D.E.P.
RCRA Site Spill Site	
Underground Storage Tank Site ☐ ISRA Site ☐ ISRA Site ☐ CERCLA (Superfund) S	JUN 1 3 2005
Operational Ground Water Permit Site	
Water and Hazardous Waste Enforcement Case	CASE I.D. Number  BUREAU OF WATER ALLOCATION
Water Supply Aquifer Test Observation Well	
Tother (explain) OWNEL INVESTIGATION	mm - 3 - 148 5: 20
FOR	For monitoring purposes only
SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.  In compliance with N.J.S.A.58:4A-14, application is made for a permit to drill a well as described above.	at a series have been a statement
Date 6-8-05 Signature of Driller	Not Registration No. 5/544

Signature of Property Owner_

COPIES Water Allocation - White Health Done

## New Jersey Department of Environmental Protection Bureau of Water Allocation

Well Permit Number 2600075496

MONITO	DRING	WELL	RECORD
T   T   T   T   T   T   T   T   T   T	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*********	

**HEALTH DEPARTMENT** 

OWNER IDENTIFICATION THREE Y, LLC 2						
Address 115 RIVER ROAD				····		
City Edgewater	State New Jers			•	ode <u>07020</u>	
WELL LOCATION - If not the same as o	wner please give address	Ov	vner's Well N	io	W3 MW-	2 cv.
County Bergen Municipal	lity Edgewater Boro				k No. 93	
Address 163 RIVER ROAD			_			
WELL USE Monitoring		DAT	E WELL STA	ARTED	8-5-05	
		DAT	E WELL CO	MPLETE <u>I</u>	8-5-05 8-5-05	_
WELL CONSTRUCTION	Note: Measure all depths	Depth to	Depth to	Diameter	Material	Wgt./Rating
Total Depth Drilled 20 ft.	from land surface	Top (ft.)	<u> </u>			(lbs/sch no.)
Finished Well Depth $20$ ft.	Single/Inner Casing	0	3	2	PVC	JCh40
Borehole Diameter:	Middle Casing (for triple cased wells only)					
Top <u>6</u> in.	Outer Casing					
Bottom in.	(largest diameter)					
Well was finished: above grade	Open Hole or Screen (No. Used , O (O)	3	20	2	PUC	sch 40
flush mounted	Blank Casings					0
If finished above grade, casing height (stick up) above land surface ft.	(No. Used )					
Steel protective casing installed?	Tail Piece				)No. H	
Yes Alo	Gravel Pack	2	20		More # Neat Cement	94 lbs
Static Water Level after drilling 5 ft.	Grout	0	2		Bentonite	5 lbs
Water Level was Measured Using M-SC	ope	G	routing Metho	od	aravety	1
Well was developed for //2 hours	,		rilling Method		auser	
at <u>3</u> gpm				GEOLOG	GIC LOS	
Method of development		Note	e each depth wher	e water was en	countered in consolida	ited
Pump Capacitygpr	n	form	nations = I	00		
Pump Type	CMITAL		<u>-0 00</u>	XV		
	of Rig CME 15	-   <u>5</u>	-20 Fc	re 4	med. gr	ay
Health and Safety Plan Submitted? Yes	∐No		range	2 DO	ed some	Selt
Level of Protection used on site (circle one)	None (D) C B	A	y			
J.				<del></del>		
I certify that I have constructed the above re accordance with all well permit requirement				·		<del></del>
rules and regulations.	з ини иррпсиоге знаге					
Drilling Company SUMMIT DRILLING C	O INC				L LOCATION	·
Well Driller (Print) John Mur	tha.	NI			NTAL DATUM) NATE IN US SUR	CIENA INICIPAL
Driller's Signature John M	urtha,	i		E COORDI		VEIFEEI
Registration No. Jala 45	Date 9/29/05	/ INUR	RTHING:		EASTING:	
	/ /			OR		_
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**COPIES:** 

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### ANALYTICAL DATA REPORT

Environmental Waste Management Associates, LLC. **Lanidex Center** 100 Misty Lane Parsippany, NJ 07054

Project Name: 3Y LLC DEVELOPMENT - 203711

IAL Case Number: E05-01940

These data have been reviewed and accepted by:

Michael H. Leftin, Ph.D.

Laboratory Director

### **Sample Summary**

Case No.

E05-01940

Project Name 3Y LLC DEVELOPMENT - 203711

Customer

EWMA - HQ

Received On

3/3/2005@12:25

Lab ID Client Sample ID	Depth Top / Bottom	Sampling Time	<u>Matrix</u>	# of Cont.
01940-001 3Y-4A	n/a	3/2/2005@10:00	Soil	2
01940-002 3Y-4B	n/a	3/2/2005@10:30	Soil	2
01940-003 3Y-4C	n/a	3/2/2005@11:00	Soil	2
01940-004 3Y-4D	n/a	3/2/2005@09:30	Soil	2
01940-005 3Y-2A	n/a	3/2/2005@14:00	Soil	2
01940-006 3Y-2B	n/a	3/2/2005@14:15	Soil	2
01940-007 3Y-2C	n/a	3/2/2005@15:15	Soil	2

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^{*} Methodology is included in the IAL Project Information Page

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^{*} Methodology is included in the IAL Project Information Page

#### **MATRIX QUALIFIERS**

- A Indicates the sample is an Aqueous matrix.
- O Indicates the sample is an Oil matrix.
- **S** Indicates the sample is a <u>S</u>oil, <u>S</u>ludge or <u>S</u>ediment matrix.
- X Indicates the sample is an Other matrix as indicated by Client Chain of Custody.

#### **DATA QUALIFIERS**

- B Indicates the analyte was found in the <u>Blank</u> and in the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of the analyte.
- **C** Common Laboratory Contaminant.
- **D** The compound was reported from the <u>D</u>iluted analysis.
- D.F. Dilution Factor.
- **E** <u>E</u>stimated concentration, reported results are outside the calibrated range of the instrument.
- J Indicates an estimated value. The compound was detected at a value below the method detection limit but greater than zero. For GC/MS procedures, the mass spectral data meets the criteria required to identify the target compound.
- MDL Method Detection Limit.
- MI Indicates compound concentration could not be determined due to Matrix Interferences.
- NA Not Applicable.
- ND Indicates the compound was analyzed for but Not Detected at the MDL.

#### **REPORT QUALIFIERS**

All solid sample analyses are reported on a dry weight basis.

All solid sample values are corrected for original sample size and percent solids.

#### **CONFORMANCE / NONCONFORMANCE SUMMARY**

Integrated Analytical Laboratories, LLC. received seven (7) soil sample(s) from Environmental Waste Management Associates, LLC. (Project: 3Y LLC DEVELOPMENT - 203711) on March 3, 2005 for the analysis of:

- (7) TCL VO+10
- (7) TCL BNA+20
- (7) PCB
- (7) TCL Pesticides
- (7) TAL Metals
- (7) Ammonia
- (7) Cyanide, Total

A review of the QA/QC measures for the analysis of the sample(s) contained in this report has been performed by:

Reviewed by

3 17 05 Date

### LABORATORY DELIVERABLES CHECK LIST

Lab Case Number: E05-01940

		Check If Complete
1.	Cover Page, Title Page listing Lab Certification #, facility name & address and date of report preparation.	_
2.	Table of Contents.	<b>✓</b>
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds.	
4.	Summary Table cross-referencing Field ID's vs. Lab ID's.	<b>✓</b>
5.	Document bound, paginated and legible.	<b>✓</b>
6.	Chain of Custody.	<b>✓</b>
7.	Methodology Summary.	<b>✓</b>
8.	Laboratory Chronicle and Holding Time Check.	<b>√</b>
9.	Results submitted on a dry weight basis (if applicable).	
10.	Method Detection Limits.	
11.	Lab certified by NJDEP for parameters or appropriate category of	
	parameters or a member of the USEPA CLP.	
12.	NonConformance Summary.	<b>√</b>
	Midynonyu 3/ QC Reviewed by	7 los ate

#### INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC/MS VOLATILE ANALYSIS

	Lab Case Number: E05 - 01940		
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).	<u>No</u>	<u>Yes</u> ✓
2.	GC/MS Tuning Specifications: a. BFB Passed		/
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series, 12 hours for 8000 series and 8 hours for 500 series.		
4.	GC/MS Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours before sample analysis for 600 series, 12 hours for 8000 series	~	
5.	GC/MS Calibration Requirements: a. Calibration Check Compounds		: 
	b. System Performance Check Compounds		
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:	<del></del>	
7.	Surrogate Recoveries Meet Criteria (If not met, list those compounds and their recoveries which fall outside the acceptable range)		
	If not met, were the calculations checked and the results qualified as "estimated"?	-	na
8.	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range)		V
9.	Internal Standard Area/Retention Time Shift meet criteria		<b>✓</b>
10.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:		M
11.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:	<del>-</del>	
	Sample Dilution Performed  High Target High Nontarget Matrix Interference Other  Compounds Compounds  Comments:	· 	
	Organics Manager 3/7/05 Date		

### INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC/MS SEMIVOLATILE ANALYSIS

	Lab Case Number: E05 - 01940		
		<u>No</u>	Yes
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).		
	GC/MS Tuning Specifications: a. DFTPP Passed		
	GC/MS Tuning Frequency - Performed every 24 hours for 600 series, 12 hours for 8000 series.		
4.	GC/MS Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours before sample analysis for 600 series.		:
5.	GC/MS Calibration Requirements: a. Calibration Check Compounds		· 🗸
_	b. System Performance Check Compounds  Blank Contamination - If yes, list compounds and concentrations in each blank:	<u> </u>	
	a. B/N Fraction  b. Acid Fraction	<del></del>	
	Surrogate Recoveries Meet Criteria (If not met, list those compounds and their recoveries which fall outside the acceptable range)  a. B/N Fraction  b. Acid Fraction  If not met, were the calculations checked and the results qualified as "estimated"?	- -	
	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range)  a. B/N Fraction  b. Acid Fraction	<u> </u>	
9.	Internal Standard Area/Retention Time Shift meet criteria		
10	Extraction Holding Time Met  If not met, list number of days exceeded for each sample:	<u> </u>	
`11	. Analysis Holding Time Met  If not met, list number of days exceeded for each sample:		
	2. Sample Dilution Performed  High Nontarget Matrix Interference Other  Compounds Compounds  3. Comments:		
	Ordanics Manager 3-4-05 Date	<del>-</del>	

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#### INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC ANALYSIS - PCB'S

Lab Case Number:

E05- 01940

		No	_Yes
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).		
2.	Standards Summary submitted.		
3.	Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 12 hrs of the sample analysis.		
4.	Blank Contamination - If yes, list compounds and concentrations in each blank:		
· 5.	Surrogate Recoveries meet criteria (if applicable).  If not met, list those compounds and their recoveries which fall outside the acceptable range:	<u> </u>	
6.	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range) acceptable range:		_/
7.	Retention Time Shift Meet Criteria (if applicable).		
8.	Extraction Holding Time Met.  If not met, list number of days exceeded for each sample:		
9.	Analysis Holding Time Met.  If not met, list number of days exceeded for each sample:		
	Comments:		
	9rganic Manager 3 8 05 Date		

MADE

# INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC ANALYSIS - PESTICIDES

	Lab Case Number: E05 - 0/940	
		No Y
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).	
2.	Standards Summary submitted.	
3.	Calibration - Initial calibration performed within 30 days before sample	<u>.</u>
	analysis and continuing calibration performed within 12 hrs of the sample analysis.	,
4.	Blank Contamination - If yes, list compounds and concentrations in each blank:	<u> </u>
•		
5.	Surrogate Recoveries meet criteria (if applicable).	
	If not met, list those compounds and their recoveries which fall outside the	
	acceptable range:	
6.	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds	
	and their recoveries/% differences which fall outside the acceptable range) acceptable range:	
7.	Retention Time Shift Meet Criteria (if applicable).	)
8.	Extraction Holding Time Met.  If not met, list number of days exceeded for each sample:	
9.	Analysis Holding Time Met.	
	If not met, list number of days exceeded for each sample:	
	Comments:	
	$\Lambda$	
	Organic Manager Date	
	Yi yamic Manayci / Date	

#### INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY METAL ANALYSIS

Lab Case Number: _E05-01940

		<u>No</u>	<u>Yes</u>
1.	Calibration Summary Meet Criteria.		_
2.	ICP Interference Check Sample Results Meets Criteria (if applicable)		<b>√</b>
3.	Serial Dilution Summary Submitted (if applicable) / Meets Criteria		✓
4.	Internal Standards Meet Criteria (if applicable)		<b>✓</b>
5.	Laboratory Control Sample Summary Submitted (if applicable) / Meets Criteria		_
6.	Blank Contamination: If yes, list compounds and concentrations in each blank:		<del></del>
7.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria. (If not, list those compounds and their recoveries which fall outside the acceptable range).		
8.	Extraction Holding Time Met. If not, list number of days exceeded for each sample:		
9.	Analysis Holding Time Met. If not, list number of days exceeded for each sample:		✓
	Additional Comments:		
	Ma Talek- pargerner Ma	arch 7, 2005 Date	

ALTERNACIA AND ARTHUR ARVERD DERIVATER VICER VILLED, DIRIVO

#### **SUMMARY REPORT**

Client: Environmental Waste Management Associates, LLC.

Project: 3Y LLC DEVELOPMENT - 203711

Lab Case No.: E05-01940

	Lab ID:	01940-001		01940-002			01940-003		01940-004		
	Client ID:	3Y-4A		3Y-4B			3Y-4C		3Y-4D		
	Matrix:	_	Soil		•	Soil		Soil		Soil	
	Sampled Date	3	3/2/05			3/2/05		3/2/05		3/2/05	
PARAMETER(Units)	Jumpiou Date			MDL		i		Conc Q MDL		Conc Q MDL	
Volatiles (mg/Kg-ppm)	!									i	
Ethylbenzene	i	0.153	J	0.607	ND		0.531	ND	0.643	ND	0.548
Total Xylenes		0.209	J	0.607	ND		0.531	ND	0.643	ND	0.548
Total Acytolics		0.205		0.001			0.001	1	0.0.5	112	0.540
TOTAL VO's:		0.362	J		ND			ND		ND	
TOTAL TIC's:	:	13.3			ND			ND		ND	•
TOTAL VO's & TIC's:	:	13.7	J		ND			ND		ND	
Semivolatiles - BNA (mg	/Kg-ppm)					*				I	
	5 5 F F 7	ND		0.125	0.655		0.125	ND	0.120	ND	0.116
Naphthalene		ND		0.125	0.033		0.125	ND	0.120	ND	0.116
2-Methylnaphthalene		ND		0.125	0.746	r	0.125	ND	0.120	ND	0.116
Acenaphthylene		0.225		0.125	0.511	J	0.125	ND	0.120	ND	0.116
Acenaphthene		0.223	J	0.125	ND		0.125	ND ND	0.120	ND	
Dibenzofuran		0.113	J	0.125	0.849		0.125	ND ND			0.116
Fluorene					4.65				0.120	ND	0.116
Phenanthrene		3.15		0.125			0.125	ND	0.120	ND	0.116
Anthracene		0.782		0.125	0.883		0.125	ND	0.120	ND	0.116
Carbazole		0.169		0.125	0.294		0.125	ND	0.120	ND	0.116
Fluoranthene		5.10		0.125	4.00		0.125	ND	0.120	ND	0.116
Pyrene		4.07		0.125	3.62		0.125	ND	0.120	ND	0.116
Benzo[a]anthracene		2.53		0.125	1.80		0.125	ND	0.120	ND	0.116
Chrysene		2.77	*	0.125	2.04		0.125	ND	0.120	ND	0.116
bis(2-Ethylhexyl)phthalate	•		J	0.125	ND		0.125	ND	0.120	ND	0.116
Benzo[b]fluoranthene		2.03		0.125	1.11		0.125	ND	0.120	ND	0.116
Benzo[k]fluoranthene		1.59		0.125	0.982		0.125	ND	0.120	ND	0.116
Benzo[a]pyrene		2.25		0.125	1.37		0.125	ND	0.120	ND	0.116
Indeno[1,2,3-cd]pyrene		1.38		0.125	0.742		0.125	ND	0.120	ND	0.116
Dibenz[a,h]anthracene		0.764		0.125	0.414		0.125	ND	0.120	ND	0.116
Benzo[g,h,i]perylene	<u></u>	1.48		0.125	0.866		0.125	ND	0.120	ND	0.116
TOTAL BNA'S:			J		25.6	J		ND		ND	
TOTAL TIC's:		2.27			8.05			ND		ND	
TOTAL BNA'S & TIC's	•	31.0	J		33.7	J		ND		ND	
PCB's (mg/Kg-ppm)											
Aroclor-1016		ND		0.020	ND		0.019	ND	0.018	ND	0.018
Aroclor-1221		ND		0.020	ND		0.019	ND	0.018	ND	0.018
Aroclor-1232		ND		0.020	ND		0.019	ND	0.018	ND	0.018
Aroclor-1242		ND		0.020	ND		0.019	ND	0.018	ND	0.018
Aroclor-1248		ND		0.020	ND		0.019	ND	0.018	ND	0.018
Aroclor-1254		ND		0.020	ND		0.019	ND	0.018	ND	0.018
Aroclor-1260		ND		0.020	ND		0.019	ND	0.018	ND	0.018

ND = Analyzed for but Not Detected at the MDL

J = The concentration was detected at a value below the MDL

All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.

#### **SUMMARY REPORT**

Client: Environmental Waste Management Associates, LLC.

Project: 3Y LLC DEVELOPMENT - 203711

Lab Case No.: E05-01940

		_	AD CASE INU			01040 002		01040 004	
	Lab ID:	01940-001		01940-002		01940-003		01940-004	
	Client ID:	3Y-4A		3Y-4B		3Y-4C		3Y-4D	
	Matrix:		Soil		Soil		Soil	Soil	
	Sampled Date		3/2/05		3/2/05		3/2/05	3/2/05	
PARAMETER(Units)		Conc	Conc Q MDL C		Conc Q MDL		Q MDL	Conc	Q MDL
Pesticides (mg/Kg-ppm)		-							
alpha-BHC	:	ND	0.00487	ND	0.00476	ND	0.0045	ND	0.00447
beta-BHC		ND	0.00487	ND	0.00476	ND	0.0045	ND	0.00447
gamma-BHC		ND	0.00487		0.00476	ND	0.0045	ND	0.00447
delta-BHC		ND	0.00487	ND	0.00476		0.0045	ND	0.00447
Heptachlor	•	ND	0.00487	ND	0.00476		0.0045	ND	0.00447
Aldrin	:	ND	0.00487		0.00476	ND	0.0045	ND	0.00447
Heptachlor epoxide	i	ND	0.00487	ND	0.00476	ND	0.0045	ND	0.00447
Endosulfan I	į	ND	0.00487		0.00476		0.0045	ND	0.00447
4,4'-DDE	•	ND	0.00487	ND	0.00476		0.0045	ND	0.00447
Dieldrin		ND	0.00487		0.00476	ND	0.0045	ND	0.00447
Endrin		ND	0.00487		0.00476	ND	0.0045	ND	0.00447
Endosulfan II		ND	0.00487	ND	0.00476	ND	0.0045	ND	0.00447
4,4'-DDD		ND	0.00487	ND	0.00476	ND	0.0045	ND	0.00447
Endrin aldehyde		ND	0.00487	ND	0.00476	ND	0.0045	ND	0.00447
Endosulfan sulfate		ND	0.00487	ND	0.00476		0.0045	ND	0.00447
		ND	0.00487	ND	0.00476	ND	0.0045	ND	0.00447
4,4'-DDT		ND	0.00487	ND	0.00476	ND	0.0045	ND	0.00447
Endrin ketone		ND	0.00487	ND	0.00476	ND	0.0045	ND	0.00447
Methoxychlor		ND	0.00487	ND	0.00476	ND	0.0045	ND	0.00447
alpha-Chlordane gamma-Chlordane		ND	0.00487	ND	0.00476	ND	0.0045	ND	0.00447
Toxaphene		ND	0.024	ND	0.024	ND	0.023	ND	0.022
							- '		
Metals (mg/Kg-ppm)		10900	13.1	14200	502	9800	12.3	4140	11.8
Aluminum		ND	1.31	ND	1.26	ND	1.23	ND	1.18
Antimony		6.43	1.31	8.31	1.26	2.25	1.23	5.10	1.18
Arsenic		78.5	13.1	90.7	12.6	31.0	12.3	21.9	11.8
Barium		ND	0.653	ND	0.628	ND	0.615	ND	0.590
Beryllium		0.451	0.326	1.17	0.314	ND	0.308	ND	0.295
Cadmium		11600	65.3	19700	62.8	938	61.5	2050	59.0
Calcium		26.7	2.61	20.3	2.51	14.6	2.46	9.17	2.36
Chromium		11.0	2.61	8.80	2.51	7.21	2.46	3.47	2.36
Cobalt		85.5	2.61	57.1	2.51	20.1	2.46	20.4	2.36
Copper		17900	32.6	19200		19700		6470	29.5
Iron		117	0.653	501	0.628	22.4	0.615	10.9	0.590
Lead		9410	65.3	6770	62.8	3740	61.5	2930	59.0
Magnesium		352	1.31	264	1.26	414	1.23	175	1.18
Manganese		0.168	0.016	0.138	0.016	0.023	0.015	ND	0.015
Mercury				29.4	1.26	16.0	1.23	6.21	1.18
Nickel		82.7 1730	1.31 65.3	1190	62.8	867	61.5	1620	59.0
Potassium		ND	2.61	ND	2.51	ND	2.46	ND	2.36
Selenium		ND	0.653	ND	0.628	ND	0.615	ND	0.590
Silver		458	131	1230	126	168	123	184	118
Sodium		0.154	0.131	ND	0.126	ND	0.123	ND	0.118
Thallium		32.1	2.61	22.3	2.51	14.0	2.46	14.7	2.36
Vanadium		32.1 112	2.61	464	2.51	60.2	2.46 2.46	54.7	2.36
Zinc		112	2.01	101			2.10		
General Analytical			<b>س</b> ـ ر					ND	1 10
Cyanide, Total(mg/Kg-ppn	n)	ND	1.29	ND	1.25	ND	1.23	ND	1.18
Ammonia(mg/Kg-ppm)		ND_	0.257	ND	0.251	ND	0.247	ND	0.237

ND = Analyzed for but Not Detected at the MDL

INTEGRATED SHALL HOME ESPONATORIES, INC.

#### **SUMMARY REPORT**

Client: Environmental Waste Management Associates, LLC.
Project: 3Y LLC DEVELOPMENT - 203711

Lab Case No.: E05-01940

	Lab ID:	01940-005		019	40-006	01940-007			
	Client ID:	3Y-2A		1	Y-2B	3Y-2C			
	Matrix:	•	Soil		1	Soil	Soil		
Sai	npled Date:		3/2/			2/05	3/2/05		
PARAMETER(Units)	npica Date:	Conc	Q				Conc		
Volatiles (mg/Kg-ppm)									
							<u>!</u>		
TOTAL VO's:		ND		0.572	ND	0.577	ND	0.575	
TOTAL TIC's:		ND			0.831		ND		
TOTAL VO's & TIC's:	-	ND			, 0.831		ND		
Semivolatiles - BNA (mg/Kg	-ppm)								
Naphthalene		3.96		2.30	2.44	0.114	ND	0.118	
2-Methylnaphthalene		1.98	J	2.30	0.136	0.114	ND	0.118	
Acenaphthene		7.44		2.30	0.439	0.114	ND	0.118	
Dibenzofuran		3.63		2.30	0.284	0.114	ND	0.118	
Fluorene		6.00		2.30	0.372	0.114	ND	0.118	
Phenanthrene		62.3		2.30	1.95	0.114	ND	0.118	
Anthracene		13.4		2.30	0.743	0.114	ND	0.118	
Carbazole		6.98		2.30	0.175	0.114	ND	0.118	
Fluoranthene		90.1		2.30	1.60	0.114	ND	0.118	
Pyrene		69.8		2.30	1.25	0.114	ND	0.118	
Benzo[a]anthracene	-	46.7		2.30	0.561	0.114	ND	0.118	
Chrysene		53.2		2.30	0.713	0.114	ND	0.118	
Benzo[b]fluoranthene		38.9		2.30	0.288	0.114	ND	0.118	
Benzo[k]fluoranthene		34.0		2.30	0.343	0.114	ND	0.118	
Benzo[a]pyrene		45.6		2.30	0.453	0.114	ND	0.118	
Indeno[1,2,3-cd]pyrene		27.2		2.30	0.236	0.114	ND	0.118	
Dibenz[a,h]anthracene		13.6		2.30	0.117	0.114	ND	0.118	
Benzo[g,h,i]perylene		28.3		2.30	0.267	0.114	ND	0.118	
		·							
TOTAL BNA'S:		553	J		12.4		ND		
TOTAL TIC's:		53.3	_		0.580		ND		
TOTAL BNA'S & TIC's:	·· **	606	J		13.0		ND		
PCB's (mg/Kg-ppm)									
Aroclor-1016		ND		0.020	ND	0.018	ND	0.018	
Aroclor-1221		ND		0.020	ND	0.018	ND	0.018	
Aroclor-1232		ND		0.020	ND	0.018	ND	0.018	
Aroclor-1242		ND		0.020	ND	0.018	ND	0.018	
Aroclor-1248		ND		0.020	ND	0.018	ND	0.018	
Aroclor-1254		ND		0.020	ND	0.018	ND	0.018	
Aroclor-1260		ND		0.020	ND	0.018	ND	0.018	

ND = Analyzed for but Not Detected at the MDL

J = The concentration was detected at a value below the MDL

All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.

#### **SUMMARY REPORT**

Client: Environmental Waste Management Associates, LLC. Project: 3Y LLC DEVELOPMENT - 203711

Lab Case No.: E05-01940

	Lab ID:	01940-005		01940-006		01940-007		
	Client ID:	3Y-2A		3Y-2B		3Y-2C		
	Matrix:			Soil		Soil		
	Sampled Date			:	3/2/05		3/2/05	
PARAMETER(Units)	Danipiou Date		Q MDL	Conc		:	Q MDL	
<u> </u>				1				
Pesticides (mg/Kg-ppm)		ND	0.0051	ND	0.00454	ND	0.00455	
alpha-BHC	•	ND	0.0051	ND	0.00454		0.00455	
beta-BHC								
gamma-BHC		ND	0.0051	ND	0.00454		0.00455	
delta-BHC		ND	0.0051		0.00454		0.00455	
Heptachlor	·	ND	0.0051	ND	0.00454		0.00455	
Aldrin		ND	0.0051		0.00454		0.00455	
Heptachlor epoxide	-	ND	0.0051		0.00454		0.00455	
Endosulfan I		ND	0.0051	ND	0.00454		0.00455	
4,4'-DDE		ND	0.0051	ND	0.00454		0.00455	
Dieldrin		ND	0.0051	ND	0.00454		0.00455	
Endrin		ND	0.0051	. ND	0.00454		0.00455	
Endosulfan II		ND	0.0051	ND	0.00454		0.00455	
4,4'-DDD		ND	0.0051	ND	0.00454	ND	0.00455	
Endrin aldehyde		ND	0.0051	ND	0.00454	ND	0.00455	
Endosulfan sulfate		ND	0.0051	ND	0.00454	ND	0.00455	
4,4'-DDT		ND	0.0051	ND	0.00454	ND	0.00455	
Endrin ketone		ND	0.0051	ND	0.00454	ND	0.00455	
Methoxychlor		ND	0.0051	ND	0.00454	ND	0.00455	
alpha-Chlordane		ND	0.0051	ND	0.00454	ND	0.00455	
gamma-Chlordane		ND	0.0051	ND	0.00454	ND	0.00455	
Toxaphene		ND	0.025	ND	0.023	ND	0.023	
Metals (mg/Kg-ppm)								
Aluminum		10900	12.9	12200	476	6090	12.1	
Antimony		ND	1.29	ND	1.19	ND	1.21	
Arsenic		16.7	1.29	ND	1.19	1.67	1.21	
Barium		99.7	12.9	17.0	11.9	31.9	12.1	
Beryllium		ND	0.643	ND	0.595	ND	0.605	
Cadmium		0.709	0.321	ND	0.298	ND	0.303	
Calcium		16900	64.3	830	59.5	1030	60.5	
Chromium		27.1	2.57	14.7	2.38	9.36	2.42	
Cobalt		9.01	2.57	4.55	2.38	5.36	2.42	
Copper		123	2.57	11.1	2.38	10.4	2.42	
Iron		19600	32.1	15100	29.8	12200	30.3	
Lead		163	0.643	8.31	0.595	4.51	0.605	
Magnesium		6480	64.3	3660	59.5	2700	60.5	
Manganese		348	1.29	105	1.19	194	1.21	
Mercury		0.427	0.016	0.062	0.015	ND	0.015	
Nickel		23.6	1.29	14.3	1.19	12.4	1.21	
Potassium		1190	64.3	778 ND	59.5	697 ND	60.5 2.42	
Selenium		ND ND	2.57 0.643	ND ND	2.38 0.595	ND ND	2.42 0.605	
Silver		413	129	160	0.393 119	169	121	
Sodium		0.329	0.129	ND	0.119	ND	0.121	
Thallium Vanadium		39.6	2.57	19.3	2.38	11.0	2.42	
Zinc		160	2.57	41.0	2.38	26.5	2.42	
General Analytical							-	
Cyanide, Total(mg/Kg-pp	m)	ND	1.28	ND	1.20	ND	1.22	
Ammonia(mg/Kg-ppm)		0.336	0.256	0.865	0.240	ND	0.244	
ND - Analyzed for but No								

Received by:

Relinquished by:

LAB COPIES - WHITE & YELLOW; CLIENT COPY - PINK

PAGE:

## **SAMPLE RECEIPT VERIFICATION**

CASE NO: <b>E05 01</b> 9	)40	CLIENT:	cump-	
COOLER TEMPERATURE: 2	- 6°C: (	See Chain of Custod	y) ments	
COC: COMPLETE / INCOM	IPLETE			
✓ = YES/NA				
<ul><li>✓ Bottles Intact</li><li>✓ no-Missing Bottles</li><li>✓ no-Extra Bottles</li></ul>				
✓ Sufficient Sample Volu ✓ no-headspace/bubbles ✓ Labels intact/correct ✓ pH Check (exclude VC	in VOs			
✓ Correct bottles/preserv ✓ Sufficient Holding/Prep Sample to be Subconti	Time'			
All samples with "Analyze Immediately" holding the following tests: pH, Temperature, Free Real ADDITIONAL COMMENTS:				t limited to
SAMPLE(S) VERIFIED BY:	INITIAL /5	SEE BELOW	DATE 3/3/25	<del></del>
CLIENT NOTIFIED:	YES Da	ite/ Time:	NO [	
PROJECT CONTACT:				
SUBCONTRACTED LAB: DATE SHIPPED:				
ADDITIONAL COMMENTS:				<del></del>
VERIFIED/TAKEN BY:	INITIAL	DATE	03/03/05	 REV 02/05

### LABORATORY CUSTODY CHRONICLE

Case No.

E05-01940

Client

**EWMA-HQ** 

Project

3Y LLC DEVELOPMENT - 203711

	P		Preparation		Analysis			
			Date / Time	Analyst	Date / Time	Analyst		
Department: Metals								
<del>n</del>	-005	Soil	3/3/05	Lisa	3/7/05	Helge		
н	-006	Soil	3/3/05	Lisa	3/7/05	Helge		
**	-007	Soil	3/3/05	Lisa	3/7/05	Helge		
Department: Wet Chemistry								
Ammonia	01940-001	Soil	n/a	n∕a	3/11/05	Jackie		
*	-002	Soil	n/a	n/a	3/11/05	Jackie		
N	-003	Soil	n/a	n/a	3/11/05	Jackie		
*	-004	Soil	n/a	n/a	3/11/05	Jackie		
W	-005	Soil	n/a	n/a	3/11/05	Jackie		
н	-006	Soil	n/a	n/a	3/11/05	Jackie		
н	-007	Soil	n/a	n/a	3/11/05	Jackie		
Cyanide, Total	01940-001	Soil	n/a	n/a	3/10/05	Jackie		
**	-002	Soil	n/a	n/a	3/10/05	Jackie		
н	-003	Soil	n/a	n/a	3/10/05	Jackie		
н	-004	Soil	n/a	n/a	3/10/05	Jackie		
ft .	-005	Soil	n/a	n/a	3/10/05	Jackie		
п	-006	Soil	n/a	n/a	3/10/05	Jackie		
**	-007	Soil	n/a	n/a	3/10/05	Jackie		

Review and Approval:



### ANALYTICAL DATA REPORT

Environmental Waste Management Associates, LLC. **Lanidex Center** 100 Misty Lane Parsippany, NJ 07054

Project Name: 163 RIVER RD. EDGEWATER - 203711

IAL Case Number: E05-01997

These data have been reviewed and accepted by:

Michael H. Leftin, Ph.D.

**Laboratory Director** 

# **Sample Summary**

Case No.

E05-01997

Project Name 163 RIVER RD. EDGEWATER - 203711

Customer

EWMA - HQ

Received On

3/4/2005@13:00

Lab ID Client Sample ID	Depth Top / Bottom	Sampling Time	<u>Matrix</u>	# of Cont.
01997-001 3Y-2D	n/a	3/4/2005@09:30	Soil	2
01997-002 3Y-2E	n/a	3/4/2005@10:30	Soil	1
01997-003 3Y-2R	n/a	3/4/2005@11:00	Soil	2

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^{*} Methodology is included in the IAL Project Information Page

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^{*} Methodology is included in the IAL Project Information Page

#### **MATRIX QUALIFIERS**

- A Indicates the sample is an Aqueous matrix.
- O Indicates the sample is an Oil matrix.
- **S** Indicates the sample is a <u>S</u>oil, <u>S</u>ludge or <u>S</u>ediment matrix.
- x Indicates the sample is an Other matrix as indicated by Client Chain of Custody.

#### **DATA QUALIFIERS**

- B Indicates the analyte was found in the <u>B</u>lank and in the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of the analyte.
- **C** Common Laboratory Contaminant.
- **D** The compound was reported from the <u>D</u>iluted analysis.
- D.F. Dilution Factor.
- **E** <u>E</u>stimated concentration, reported results are outside the calibrated range of the instrument.
- J Indicates an estimated value. The compound was detected at a value below the method detection limit but greater than zero. For GC/MS procedures, the mass spectral data meets the criteria required to identify the target compound.
- MDL Method Detection Limit.
- MI Indicates compound concentration could not be determined due to  $\underline{M}$ atrix Interferences.
- **NA Not Applicable.**
- ND Indicates the compound was analyzed for but Not Detected at the MDL.

### **REPORT QUALIFIERS**

All solid sample analyses are reported on a dry weight basis.

All solid sample values are corrected for original sample size and percent solids.

### **CONFORMANCE / NONCONFORMANCE SUMMARY**

Integrated Analytical Laboratories, LLC. received three (3) soil sample(s) from Environmental Waste Management Associates, LLC. (Project: 163 RIVER RD. EDGEWATER - 203711) on March 4, 2005 for the analysis of:

- (2) TCL VO+10
- (2) TCL BNA+20
- (1) TCL BNA + 20
- (3) PCB
- (3) TCL Pesticides
- (3) TAL Metals
- (3) Ammonia
- (3) Cyanide, Total

A review of the QA/QC measures for the analysis of the sample(s) contained in this report has been performed by:

Maynayu Reviewed by 3 | 18 | 05 Date

### LABORATORY DELIVERABLES CHECK LIST

Lab Case Number: E05-01997

		Check If Complete
1.	Cover Page, Title Page listing Lab Certification #, facility name & address and date of report preparation.	
2.	Table of Contents.	<b>✓</b>
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds.	<b>✓</b>
4.	Summary Table cross-referencing Field ID's vs. Lab ID's.	
5.	Document bound, paginated and legible.	
6.	Chain of Custody.	
7.	Methodology Summary.	
8.	Laboratory Chronicle and Holding Time Check.	
9.	Results submitted on a dry weight basis (if applicable).	
10.	Method Detection Limits.	<b>✓</b>
11.	Lab certified by NJDEP for parameters or appropriate category of parameters or a member of the USEPA CLP.	
12.	NonConformance Summary.	
	QC Reviewed by 31	8 ns

# INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC ANALYSIS - PCB'S

Lab Case Number:

E05-01997

1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).	 _ Yes
2.	Standards Summary submitted.	 
3.	Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 12 hrs of the sample analysis.	 
4.	Blank Contamination - If yes, list compounds and concentrations in each blank:	
<i>.</i> 5.	Surrogate Recoveries meet criteria (if applicable).  If not met, list those compounds and their recoveries which fall outside the acceptable range:	 
6.	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range) acceptable range:	 
7.	Retention Time Shift Meet Criteria (if applicable).	
8.	Extraction Holding Time Met.  If not met, list number of days exceeded for each sample:	
9.	Analysis Holding Time Met.  If not met, list number of days exceeded for each sample:	 _/
	Comments:	
	Prganic Manager 3/12/05 Date	

# INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC ANALYSIS - PESTICIDES

E05 - 01997

Lab Case Number:

	<b>,</b>	<u>No</u>	_Yes
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).		_ L
2.	Standards Summary submitted.		-
3.	Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 12 hrs of the sample analysis.		
4.	Blank Contamination - If yes, list compounds and concentrations in each blank:	<u>v</u>	
•			
5.	Surrogate Recoveries meet criteria (if applicable).  If not met, list those compounds and their recoveries which fall outside the acceptable range:		_ <i>V</i> _
6.	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range) acceptable range:		<u> </u>
7.	Retention Time Shift Meet Criteria (if applicable).		
8.	Extraction Holding Time Met.		<del></del>
	If not met, list number of days exceeded for each sample:		-
9.	Analysis Holding Time Met.  If not met, list number of days exceeded for each sample:		V
	Comments:		
	Organic Manager  Organic Manager  Date		

rev 01/05

0007

INTEGRALES MIMELLICAL EMPORATORIES, LEC-

#### **SUMMARY REPORT**

### Client: Environmental Waste Management Associates, LLC. Project: 163 RIVER RD. EDGEWATER - 203711

Lab Case No.: E05-01997

Lab ID:	0199	7-001	0199	7-002	0199	7-003
Client ID:	3Y	-2D	3Y	-2E	3Y-	·2R
Matrix:	: <b>S</b>	oil	S	oil	Sc	il
Sampled Date	3/4	1/05	3/4	/05	3/4	/05
PARAMETER(Units)	Conc Q	MDL	Conc Q	MDL	Conc Q	MDL
Volatiles (mg/Kg-ppm)	į					
TOTAL VO's:	ND	0.439	~	~	ND	0.578
TOTAL TIC's:	ND		~	~	ND	
TOTAL VO's & TIC's:	ND		. ~	~	ND	
Semivolatiles - BNA (mg/Kg-ppm)	:		:		-	
. Acenaphthene	ND	0.104	3.40	1.20	ND	0.125
Dibenzofuran	ND	0.104	2.46	1.20	ND	0.125
Fluorene	ND	0.104	2.78	1.20	ND	0.125
Phenanthrene	ND	0.104	33.7	1.20	ND	0.125
Anthracene	ND	0.104	9.70	1.20	ND	0.125
Carbazole	ND	0.104	1.85	1.20	ND	0.125
Fluoranthene	ND	0.104	60.8	1.20	ND	0.125
Pyrene	ND	0.104	52.5	1.20	ND	0.125
Benzo[a]anthracene	ND	0.104	30.2	1.20	ND	0.125
Chrysene	ND	0.104	35.2	1.20	ND	0.125
Benzo[b]fluoranthene	ND	0.104	28.2	1.20	ND	0.125
Benzo[k]fluoranthene	ND	0.104	19.7	1.20	ND	0.125
Benzo[a]pyrene	ND	0.104	25.8	1.20	ND	0.125
Indeno[1,2,3-cd]pyrene	ND	0.104	16.0	1.20	ND	0.125
Dibenz[a,h]anthracene	ND	0.104	6.43	1.20	ND	0.125
Benzo[g,h,i]perylene	ND	0.104	15.8	1.20	ND	0.125
TOTAL BNA'S:	ND		345		ND	
TOTAL TIC's:	ND		20.7		ND	
TOTAL BNA'S & TIC's:	ND		366		ND	
PCB's (mg/Kg-ppm)				2.212		0.010
Aroclor-1016	ND	0.016	ND	0.019	ND	0.018
Aroclor-1221	ND	0.016	ND	0.019	ND	0.018
Aroclor-1232	ND	0.016	ND	0.019	ND	0.018
Aroclor-1242	ND	0.016	ND	0.019	ND ND	0.018
Aroclor-1248	ND	0.016	ND	0.019	ND	0.018
Aroclor-1254	ND	0.016	ND	0.019	ND	0.018
Aroclor-1260	ND	0.016	ND	0.019	ND	0.018
Pesticides (mg/Kg-ppm)	NID	0.00202	NID	0.0047	NID	0.00461
alpha-BHC	ND	0.00392	ND	0.0047	ND ND	0.00451
beta-BHC	ND ND	0.00392	ND ND	0.0047 0.0047	ND ND	0.00451 0.00451
gamma-BHC	ND ND	0.00392	ND ND	0.0047	ND ND	0.00451
delta-BHC	ND ND	0.00392 0.00392	ND ND	0.0047	ND ND	0.00451
Heptachlor	ND ND	0.00392	ND ND	0.0047	ND ND	0.00451
Aldrin	ND ND	0.00392	ND ND	0.0047	ND ND	0.00451
Heptachlor epoxide	ND ND	0.00392	ND	0.0047	ND ND	0.00451
Endosulfan I	ND ND	0.00392	ND ND	0.0047	ND	0.00451
4,4'-DDE	IND	0.00372	1117	V.VUT/	1457	U.UUTJ1

 $[\]sim$  = Sample not analyzed for

Continued on Next Page

ND = Analyzed for but Not Detected at the MDL

ALL A SULENCE A EVEN COLLEGE LA A CORAL A COMPUTATION A CAMERILLO A LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA SULENCE DE LA S

#### SUMMARY REPORT

Client: Environmental Waste Management Associates, LLC. Project: 163 RIVER RD. EDGEWATER - 203711

Lab Case No.: E05-01997

	Lab ID:	01	997-001	01	997-002	01	997-003
	Client ID:		3Y-2D		3Y-2E		3Y-2R
	Matrix:		Soil		Soil	;	Soil
	Sampled Date		3/4/05	1	3/4/05	:	3/4/05
PARAMETER(Units)		Conc		Conc		Conc	
Pesticides (mg/Kg-ppm)	)			:		T	···
Dieldrin	•	ND	0.00392	ND	0.0047	ND	0.00451
Endrin	,	ND	0.00392	ND	0.0047	ND	0.00451
Endosulfan II	:	ND	0.00392	ND	0.0047	ND	0.00451
4,4'-DDD	,	ND	0.00392	ND	0.0047	ND	0.00451
Endrin aldehyde	•	ND_	0.00392	ND	0.0047	ND	0.00451
Endosulfan sulfate	:	ND	0.00392	ND	0.0047	ND	0.00451
4,4'-DDT	ì	ND	0.00392	ND	0.0047	ND	0.00451
Endrin ketone		ND	0.00392	ND	0.0047	ND	0.00451
Methoxychlor		ND	0.00392	ND	0.0047	ND	0.00451
alpha-Chlordane		ND	0.00392	ND	0.0047	ND	0.00451
gamma-Chlordane		ND	0.00392	ND	0.0047	ND	0.00451
Toxaphene		ND	0.020	ND	0.023	ND	0.023
Metals (mg/Kg-ppm)							<del>"</del>
Aluminum		7490	11.0	8590	12.7	19200	516
Antimony		ND	1.10	ND	1.27	ND	1.29
Arsenic		3.76	1.10	34.5	1.27	4.63	1.29
Barium	-	73.6	11.0	445	12.7	103	12.9
Beryllium		ND	0.551	ND	0.635	0.830	0.645
Cadmium		0.310	0.275	1.23	0.318	ND	0.323
Calcium		3040	55.1	3180	63.5	7940	64.5
Chromium		14.0	2.20	19.3	2.54	23.2	2.58
Cobalt		5.36	2.20	12.7	2.54	14.2	2.58
Copper		22.0	2.20	114	2.54	26.1	2.58
Iron		9700	27.5	50900	31.8	29400	32.3
Lead		12.2	0.551	514	0.635	15.4	0.645
Magnesium		5540	55.1	1540	63.5	10100	64.5
Manganese		395	1.10	490	1.27	676	1.29
Mercury		ND	0.014	0.676	0.016	0.029	0.016
Nickel	•	11.4	1.10	22.9	1.27	29.2	1.29
Potassium		2360	55.1	489	63.5	2500	64.5
Selenium		ND	2.20	ND	2.54	ND	2.58
Silver		ND	0.551	ND	0.635	ND	0.645
Sodium		319	110	247	127	339	129
Thallium		0.130	0.110	1.07	0.127	ND	0.129
Vanadium		21.9	2.20	28.3	2.54	27.6	2.58
Zinc		42.1	2.20	475	2.54	68.4	2.58
General Analytical							
Cyanide, Total(mg/Kg-pp	pm)	ND	1.11	ND	1.26	ND	1.29
Ammonia(mg/Kg-ppm)		ND	0.221	ND	0.252	ND	0.259

ND = Analyzed for but Not Detected at the MDL

# INTEGRATED ANALYTICAL LABORATORIES CHAIN OF CUSTODY

273 Franklin Rd Randolph, NJ 07869

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CUSTODY LO	G										<del></del>			Describe		~			GWQ	or SCC	2
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Sample ID	Sample Depth (in Feet)	Date	Time	am pro		Containers	Lab ID	1	10	100	<i>'</i>   <u>'</u>	<del>/</del>	_	<del>/</del>	<del>                                     </del>		<del>/</del>	/ Cor	nments/A	rea of C	one
MAR MAR ATTA			Sampling	#	GW - Grout	ndwater # of	SOL - Solid	$\sqrt{\aleph}$	17 E	13		/	/					/	4	ooler ten °C	
AMPLE INFO	ORMATION				W - Waste O - Oil	SL - Sludge X - Other	A - Aqueou S - Soil			TCL/TAL	4	/		/	/	/		/	5. MeOH	6.0	
eference ID#:203	711 PO#:		<u> </u>		SAI	MPLE MAT	RIX	J /	742.430	2/3	2 2	/ /	/			/			2. NaOH	AM	کھ
ocation of Site (STA	TE): 163 River Rd B	dgew	ite.					/	/ ۾ '		0 X	'. /	' /	/	/	/	<i>'</i>	' /	1. HCL	3. H 4. H	NO,
roject Manager: A	jay Kathuria TE: 163 River RA E		Address						1 2 3 4 5 6	123	1 2 3 4 5 6	1 2 3 4 5 6	123		1 2 3 4 5 6	456	1 2 3 4 5 6	123	<u> </u>	Preservative	
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mpany EW	JECT ZAA A	Ĭ	Fax to:			LING			Condit	onal / 3	ГРНС				Results ne	eded by:			Report	Format	

### PROJECT INFORMATION



Case No. E05-01997 Project [	63 RIVER RD. EDGE	WATER - 203711			
Customer EWMA - HQ		P.O. #			
Contact Ajay Kathuria		Received 3/	/4/2005 13:00		
EMail ajay.kathuria@ewma.com	EMail EDDs		18/2005		
	3) 560-0400	Report Due 3/	25/2005		
Report To	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Bill To			
Lanidex Center		Lanidex Center			
100 Misty Lane		100 Misty Lane			
·		•	7054		
Parsippany, NJ 07054		Parsippany, NJ 0	/054		
Attn: Ajay Kathuria		Attn: Ajay Kathu	ria		
Descrit Formet Deducard					
Report Format Reduced		<b>-</b>			
Additional Info State Form	Field Sampling	Conditional VOA			
<u> </u>					
	5 4 W 4 W	O	Magazin	T	
<u>Lab ID</u> <u>Client Sample ID</u> 01997-001 3Y-2D	<u>Depth Top / Bottom</u> n/a	<u>Sampling Time</u> 3/4/2005@09:30		<u>Unit</u> # of Contain mg/Kg 2	<u>iers</u>
01997-002 3Y-2E	n/a	3/4/2005@10:30		mg/Kg 1	
01997-003 3Y-2R	n/a	3/4/2005@11:00		mg/Kg 2	
			•		
Sample # Tests		OA Method			
001 TCL VO+10 " TCL BNA+20		60B 70C			
" PCB		82			
" TCL Pesticides		81A			
" TAL Metals	Run 60	20/7471A			
" Ammonia	Run 35	0.2 M			
" Cyanide, Total	Run 90	14			
002 TCL BNA + 20	Run 82	70C			
" PCB	Rua 80	82			
" TCL Pesticides	Run 80	81A			
" TAL Metals	Run 60	20/7471A			
" Ammonia		0.2 M			
" Cyanide, Total	Run 90	14			
003 TCL VO+10	Run 82	60B			

8270C

8082

8081A

350.2 M

9014

6020/7471A

Run

Run

Run Run

Run

Run

03/04/2005 14:35 by ELLEN - NOTE 1

TCL BNA+20

TCL Pesticides

TAL Metals

Cyanide, Total

Ammonia

**PCB** 

VOA collected in Encor to be transferred to Methanol

### **SAMPLE RECEIPT VERIFICATION**

CASE NO: <b>E05 01997</b>	CLIENT: RWMA
COOLER TEMPERATURE: 2° - 6°C:	✓ ( See Chain of Custody)
COC: COMPLETE / INCOMPLETE  KEY  V = YES/NA  X = NO	Comments
<ul><li>✓ Bottles Intact</li><li>✓ no-Missing Bottles</li><li>✓ no-Extra Bottles</li></ul>	
the following tests: pH, Temperature, Free Residual Chlori	ne analyzed by this laboratory past the holding time. This includes but is not limited to ne, Total Residual Chlorine, Dissolved Oxygen, Sulfite.
SAMPLE(S) VERIFIED BY: INITIAL  CORRECTIVE ACTION REQUIRED	DATE 3/4/05  SEE BELOW)  NO
CLIENT NOTIFIED: YES	Date/ Time: 3/4/05 / 1/4 NO
PROJECT CONTACT:	Ajay
SUBCONTRACTED LAB:  DATE SHIPPED:	
ADDITIONAL COMMENTS:	ph date = 3/4/05
VERIFIED/TAKEN BY: INITIAL	DATE 3,4,05

### LABORATORY CUSTODY CHRONICLE

Case No.

E05-01997

Client

EWMA - HQ

Project

163 RIVER RD. EDGEWATER - 203711

<u></u>			Preparation		Analysis	
			Date / Time	Analyst	Date / Time	Analyst
Department: Volatiles						
TCL VO+10	01997-001	Soil	n/a	n/a	3/9/05	Xing
я	-003	Soil	n/a	n/a	3/9/05	Xing
Department: Semivolatiles					·	
TCL BNA + 20	01997-002	Soil	3/7/05	Kou-Liang	3/7/05	JC
TCL BNA+20	-001	Soil	3/7/05	Kou-Liang	3/7/05	JC
н	-003	Soil	3/7/05	Kou-Liang	3/7/05	JC
Department: GC		- 4				
PCB	01997-001	Soil	3/8/05	Archimede	3/13/05	Maggie
41	-002	Soil	3/8/05	Archimede	3/13/05	Maggie
Ħ	-003	Soil	3/8/05	Archimede	3/13/05	Maggie
TCL Pesticides	01997-001	Soil	3/8/05	Archimede	3/11/05	Mei
ч	-002	Soil	3/8/05	Archimede	3/11/05	Mei
¥	-003	Soil	3/8/05	Archimede	3/11/05	Mei
Department: Metals						
TAL Metals	01997-001	Soil	3/7/05	Lisa	3/9/05	Helge
"	-002	Soil	3/7/05	Lisa	3/9/05	Helge
Ħ	-003	Soil	3/7/05	Lisa	3/9/05	Helge
Department: Wet Chemistry			_			
Ammonia	01997-001	Soil	n/a	n/a	3/11/05	Jackie
ч	-002	Soil	n/a	n/a	3/11/05	Jackie
#	-003	Soil	n/a	n/a	3/11/05	Jackie
Cyanide, Total	01997-001	Soil	n/a	n/a	3/15/05	Jackie
+	-002	Soil	n/a	n/a	3/15/05	Jackie
**	-003	Soil	n/a	n/a	3/15/05	Jackie

Review and Approval: Mdlphsupu



### ANALYTICAL DATA REPORT

Environmental Waste Management Associates, LLC. Lanidex Center 100 Misty Lane Parsippany, NJ 07054

Project Name: 3YL-16B RIVER RD. - 203711 IAL Case Number: E05-02014

These data have been reviewed and accepted by:

Michael H. Leftin, Ph.D. Laboratory Director

# **Sample Summary**

Case No.

E05-02014

Project Name 3YL-16B RIVER RD. - 203711

Customer

EWMA - HQ

Received On

3/4/2005@17:30

Lab 10 Client Sample 10	Depth Top / Bottom	Sampling Time	<u>Matrix</u>	# of Cont.
02014-001 3Y-1A	n/a	3/4/2005@13:00	Soil	2
02014-002 3Y-1B	n/a	3/4/2005@14:00	Soil	2
02014-003 3Y-1C	n/a	3/4/2005@14:30	Soil	2
02014-004 3Y-1R	n/a	3/4/2005@14:15	Soil	2

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Method Blank Results Summary	
Calibration Summary	
Surrogate Compound Recovery Results Summary	
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Internal Standard Summary	
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Method Blank Results Summary	
Standards Summary	
Surrogate Compound Recovery Results Summary	
Matrix Spike/Matrix Spike Duplicate Results Summary	
Retention Time Shift Summary	
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^{*} Methodology is included in the IAL Project Information Page

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^{*} Methodology is included in the IAL Project Information Page

### **MATRIX QUALIFIERS**

- A Indicates the sample is an Aqueous matrix.
- O Indicates the sample is an Oil matrix.
- **S** Indicates the sample is a <u>S</u>oil, <u>S</u>ludge or <u>S</u>ediment matrix.
- X Indicates the sample is an Other matrix as indicated by Client Chain of Custody.

### **DATA QUALIFIERS**

- B Indicates the analyte was found in the <u>B</u>lank and in the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of the analyte.
- **C** Common Laboratory Contaminant.
- **D** The compound was reported from the <u>D</u>iluted analysis.
- **D.F.** Dilution Factor.
- **E** <u>E</u>stimated concentration, reported results are outside the calibrated range of the instrument.
- J Indicates an estimated value. The compound was detected at a value below the method detection limit but greater than zero. For GC/MS procedures, the mass spectral data meets the criteria required to identify the target compound.
- MDL Method Detection Limit.
- MI Indicates compound concentration could not be determined due to Matrix Interferences.
- **NA** <u>N</u>ot <u>Applicable</u>.
- ND Indicates the compound was analyzed for but Not Detected at the MDL.

### REPORT QUALIFIERS

All solid sample analyses are reported on a dry weight basis.

All solid sample values are corrected for original sample size and percent solids.

## LABORATORY DELIVERABLES CHECK LIST

Lab Case Number: E05-02014

		Check If Complete
1.	Cover Page, Title Page listing Lab Certification #, facility name	_
	& address and date of report preparation.	
2.	Table of Contents.	
3.	Summary Sheets listing analytical results for all targeted and	_
	non-targeted compounds.	
4.	Summary Table cross-referencing Field ID's vs. Lab ID's.	<b>✓</b>
5.	Document bound, paginated and legible.	✓
6.	Chain of Custody.	✓
7.	Methodology Summary.	<b>✓</b>
8.	Laboratory Chronicle and Holding Time Check.	<b>✓</b>
9.	Results submitted on a dry weight basis (if applicable).	✓
10.	Method Detection Limits.	✓
11.	Lab certified by NJDEP for parameters or appropriate category of	<b>✓</b>
	parameters or a member of the USEPA CLP.	
12.	NonConformance Summary.	
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	OC Reviewed by	<u>メロリン</u> Oate

# INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC/MS VOLATILE ANALYSIS

	Lab Case Number: E05 - 02014	<u>No</u>	Yes
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).		
2.	GC/MS Tuning Specifications: a. BFB Passed		
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series, 12 hours for 8000 series and 8 hours for 500 series.		
4.	GC/MS Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours before sample analysis for 600 series, 12 hours for 8000 series		
5.	GC/MS Calibration Requirements:  a. Calibration Check Compounds		
	b. System Performance Check Compounds		
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		
7.	Surrogate Recoveries Meet Criteria (If not met, list those compounds and their recoveries which fall outside the acceptable range)		<u> </u>
	If not met, were the calculations checked and the results qualified as "estimated"?		<u>na</u>
8.	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range)		
9.	Internal Standard Area/Retention Time Shift meet criteria		<u> </u>
10.	Extraction Holding Time Met  If not met, list number of days exceeded for each sample:		_NA
11.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:		
12.	Sample Dilution Performed	·	
	High Target High Nontarget Matrix Interference Other Compounds Compounds		
13.	Comments:		
	3/14/05		
	Organics Manager Date		

# INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC/MS SEMIVOLATILE ANALYSIS

	Lab Case Number: E05 - 0 20 1		
		No	<u>Yes</u>
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).		
2.	GC/MS Tuning Specifications: a. DFTPP Passed		
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series, 12 hours for 8000 series.		<u> </u>
4.	GC/MS Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours before sample analysis for 600 series.		<u>√</u>
5.	GC/MS Calibration Requirements: a. Calibration Check Compounds b. System Performance Check Compounds		<u> </u>
	Blank Contamination - If yes, list compounds and concentrations in each blank:  a. B/N Fraction  b. Acid Fraction		
7.	Surrogate Recoveries Meet Criteria (If not met, list those compounds and their recoveries which fall outside the acceptable range)  a. B/N Fraction  b. Acid Fraction  If not met, were the calculations checked and the results qualified as "estimated"?	-	/ na
8.	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range)  a. B/N Fraction  b. Acid Fraction	<del></del>	
9.	Internal Standard Area/Retention Time Shift meet criteria		<b>✓</b>
10.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:		
11.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:	-	
12.	Sample Dilution Performed  High Nontarget Metric Interference Officer	<u> </u>	<u> </u>
13.	Compounds Compounds Matrix Interference Other  Comments:	·. 	
	3.8-05		

# INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC ANALYSIS - PCB'S

Lab Case Number:

E05- 02014

1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).	INO	_Yes
2.	Standards Summary submitted.		
3.	Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 12 hrs of the sample analysis.		
4.	Blank Contamination - If yes, list compounds and concentrations in each blank:		<del>,</del>
5.	Surrogate Recoveries meet criteria (if applicable).  If not met, list those compounds and their recoveries which fall outside the acceptable range:		· 
6.	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range) acceptable range:		/
7.	Retention Time Shift Meet Criteria (if applicable).		_/
8.	Extraction Holding Time Met.  If not met, list number of days exceeded for each sample:		
9.	Analysis Holding Time Met.		
	If not met, list number of days exceeded for each sample:		•
	Comments:		
	Prganic Manager  3/12/υζ  Date		

# INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC ANALYSIS - PESTICIDES

	GO ANALIGIO - I LONGIDEO		•
	Lab Case Number: E05 - 02014		
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).	<u>No</u>	Yes
2.	Standards Summary submitted.		_ <u>_</u>
3.	Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 12 hrs of the sample analysis.		_\bullet
4.	Blank Contamination - If yes, list compounds and concentrations in each blank:	<u></u>	•
5.	Surrogate Recoveries meet criteria (if applicable). If not met, list those compounds and their recoveries which fall outside the acceptable range:		<b>-V</b>
6.	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range) acceptable range:		V
7.	Retention Time Shift Meet Criteria (if applicable).	<u>-                                      </u>	<i>\</i>
8.	Extraction Holding Time Met.  If not met, list number of days exceeded for each sample:		V
9.	Analysis Holding Time Met.  If not met, list number of days exceeded for each sample:		V
	Comments:		

Organic Manager

23 (10 /0) Date

# INTEGRATED ANALYTICAL LABORATORIES, LLC. SUMMARY REPORT

Client: Environmental Waste Management Associates, LLC.

Project: 3YL-16B RIVER RD. - 203711

Lab Case No.: E05-02014

	Lab ID:	02014-001 02014-002		02014	02014-003		02014-004				
Client ID:  Matrix:		3Y-			Y-1B		3Y-		3Y-1R		
		So			Soil		1	Soil		Soil	
	Sampled Date	**		3/4/		3/4/05					
PARAMETER(Units)	Samplea Date:	Conc Q	MDL	Conc			Conc Q		Conc	Q MDL	
Volatiles (mg/Kg-ppm)									1		
Benzene		ND	0.549	1.55	(	0.779	ND	0.556	ND	0.787	
Toluene		ND	0.549	2.34		1.56	: ND	0.556	ND	0.787	
Ethylbenzene		ND	0.549	9.42		1.56	ND	0.556	ND	0.787	
Total Xylenes	•	ND	0.549	13.5		1.56	ND	0.556	ND	0.787	
TOTAL VO's:		ND		26.8			ND		ND		
TOTAL TIC's:		15.7		471			ND		1.38		
TOTAL VO's & TIC's:		15.7		498			ND		1.38		
Semivolatiles - BNA (mg	/Kg-ppm)						!		i		
Naphthalene		17.4	2.19	45.4		1.17	0.738	0.117	1.59	0.237	
2-Methylnaphthalene		7.18	2.19	14.5		1.17	0.492	0.117	1.07	0.237	
Acenaphthylene		2.20	2.19			1.17	ND	0.117		0.237	
Acenaphthene		22.7	2.19	26.9			0.387	0.117	1.06	0.237	
Dibenzofuran		11.7	2.19	21.9		1.17	0.418	0.117	1.79	0.237	
Fluorene		19.3	2.19	37.9		1.17	0.672	0.117	4.13	0.237	
Phenanthrene		219	2.19	175		1.17	2.57	0.117	14.7	0.237	
Anthracene		44.4	2.19	165		1.17	3.10	0.117	31.4	0.237	
Carbazole		20.5	2.19	46.3		1.17	1.11	0.117	7.91	0.237	
Fluoranthene		277	2.19	133		1.17	1.40	0.117	3.45	0.237	
Pyrene		174	2.19	77.8		1.17	0.998	0.117	3.53	0.237	
Benzo[a]anthracene		121	2.19	37.1		1.17	0.474	0.117	1.22	0.237	
Chrysene		142	2.19	41.6		1.17	0.547	0.117	1.55	0.237	
bis(2-Ethylhexyl)phthalat	e	ND	2.19	ND		1.17	ND	0.117	0.155		
Benzo[b]fluoranthene		106	2.19	25.3		1.17	0.295	0.117	0.939	0.237	
Benzo[k]fluoranthene		80.1	2.19	23.4		1.17	0.301	0.117	0.765	0.237	
Benzo[a]pyrene		116	2.19	33.6		1.17	0.397	0.117	1.13	0.237	
Indeno[1,2,3-cd]pyrene		48.8	2.19	15.9		1.17	0.184	0.117	0.561	0.237	
Dibenz[a,h]anthracene		33.6	2.19	7.71		1.17	ND	0.117	0.301	0.237	
Benzo[g,h,i]perylene		44.9	2.19	16.8		1.17	0.189	0.117	0.668	0.237	
TOTAL BNA'S:		1510		946	J		14.3			J	
TOTAL TIC's:		352		136			0.586		1.02	_	
TOTAL BNA'S & TIC'S	S:	1860		1080	J		14.9		78.9	J	
PCB's (mg/Kg-ppm)											
Aroclor-1016		ND	0.017	ND		0.017	ND	0.018	ND	0.018	
Aroclor-1221		ND	0.017	ND		0.017	ND	0.018	ND	0.018	
Aroclor-1232	•	ND	0.017	ND		0.017	ND	0.018	ND	0.018	
Aroclor-1242		ND	0.017	ND		0.017	ND	0.018	ND	0.018	
Aroclor-1248		ND	0.017	ND		0.017	ND	0.018	ND	0.018	
Aroclor-1254		ND	0.017	ND		0.017	ND	0.018	ND	0.018	
Aroclor-1260		ND	0.017	ND	(	0.017	ND	0.018	ND	0.018	

ND = Analyzed for but Not Detected at the MDL

J = The concentration was detected at a value below the MDL

All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.

# INTEGRATED ANALYTICAL LABORATORIES, LLC. SUMMARY REPORT

Client: Environmental Waste Management Associates, LLC.

Project: 3YL-16B RIVER RD. - 203711 Lab Case No.: E05-02014

		Lab	Case No.:	E05-020	14				
	Lab ID:	020	14-001	0201	4-002		14-003	i	14-004
	Client ID:	3	Y-1A	31	′-1B		Y-1C	,	Y-1R
	Matrix:		Soil	S	oil		Soil	:	Soil
	Sampled Date	3	/4/05	3/-	3/4/05		3/4/05		/4/05
PARAMETER(Units)	•	Conc	Q MDL	Conc	Q MDL	Conc	Q MDL	Conc	Q MDL
Pesticides (mg/Kg-ppm)								i - ·	
alpha-BHC		ND	0.00419	ND	0.00435	ND	0.0046		0.0045
beta-BHC		ND	0.00419	ND	0.00435	ND	0.0046	ND	0.0045
gamma-BHC		ND	0.00419	ND	0.00435	ND	0.0046	ND	0.0045
delta-BHC		ND	0.00419	ND	0.00435	ND	0.0046	ND	0.0045
Heptachlor		ND	0.00419	ND	0.00435	ND	0.0046		0.0045
Aldrin		ND	0.00419	ND	0.00435	ND	0.0046	ND	0.0045
Heptachlor epoxide		ND	0.00419	ND	0.00435		0.0046	ND	0.0045
Endosulfan I		ND	0.00419	ND	0.00435	ND	0.0046	ND	0.0045
4,4'-DDE		ND	0.00419	ND	0.00435	ND	0.0046	ND	0.0045
Dieldrin		ND	0.00419	ND	0.00435	ND	0.0046	ND	0.0045
Endrin		ND	0.00419	ND	0.00435	ND	0.0046	ND	0.0045
Endosulfan II		ND	0.00419	ND	0.00435	ND	0.0046	ND	0.0045
4,4'-DDD		ND	0.00419	ND	0.00435	ND	0.0046	ND	0.0045
Endrin aldehyde		ND	0.00419	ND	0.00435	ND	0.0046	ND	0.0045
Endosulfan sulfate		ND	0.00419	ND	0.00435	ND	0.0046	ND	0.0045
4,4'-DDT		ND	0.00419	ND	0.00435	ND	0.0046	ND	0.0045
Endrin ketone		ND	0.00419	ND	0.00435	ND	0.0046	ND	0.0045
Methoxychlor		ND	0.00419	ND	0.00435	ND	0,0046	ND	0.0045
alpha-Chlordane		ND	0.00419	ND	0.00435	ND	0.0046	ND	0.0045
gamma-Chlordane		ND	0.00419	ND	0.00435	ND	0.0046	ND	0.0045
Toxaphene		ND	0.021	ND	0.022	ND	0.023	ND	0.023
Metals (mg/Kg-ppm)									
Aluminum		11400	458	4960	12.6	7580	12.0	8520	12.4
Antimony		ND	1.14	ND	1.26	ND	1.20	ND	1.24
Arsenic		18.3	1.14	21.3	1.26	1.80	1.20	ND	1.24
Barium		123	11.4	60.5	12.6	28.6	12.0	ND	12.4
Beryllium		3.45	0.572	ND	0.630	ND	0.600	ND	0.620
Cadmium		0.864	0.286	0.416	0.315	ND	0.300	ND	0.310
Calcium		12100	57.2	7150	63.0	693	60.0	568	62.0
Chromium		62.4	2.29	26.8	2.52	9.97	2.40	9.43	2.48
Cobalt		10.6	2.29	20.4	2.52	5.22	2.40	4.12	2.48
Copper		154	2.29	126	2.52	14.5	2.40	11.4	2.48
Iron		32400	28.6	100000	1260	15200	30.0	13600	31.0
Lead		286	0.572	132	0.630	4.84	0.600	5.42	0.620
Magnesium		5300	57.2	1520	63.0	3160	60.0	3450	62.0
Manganese		459	1.14	742	1.26	189	1.20	108	1.24
Mercury		1.46	0.071	0.638	0.078	0.016	0.015	0.030	0.015
Nickel		46.8	1.14	43.3	1.26	11.7	1.20	12.0	1.24
Potassium		1830	57.2	367	63.0	751	60.0	702	62.0
Selenium		ND	2.29	ND	2.52	ND	2.40	ND	2.48
Silver		ND	0.572	ND	0.630	ND	0.600	ND	0.620
Sodium		478	114	322	126	ND	120	156	124
Thallium		0.425	0.114	0.376	0.126	ND	0.120	ND	0.124
Vanadium		34.0	2.29	47.6	2.52	11.3	2.40	11.2	2.48
Zinc		364	2.29	117	2.52	30.9	2.40	29.6	2.48
General Analytical									
Cyanide, Total(mg/Kg-pp	m)	ND	1.14	ND	1.25	ND	1.20	ND	1.23
Ammonia(mg/Kg-ppm)		ND	0.229	0.627	0.249	ND	0.240	ND	0.245

Phone # (973) 361-4252

# INTEGRATED ANALYTICAL LABORATORIES CHAIN OF CUSTODY

273 Franklin Rd

Fax # (973) 989-5288		CHAIN OF CU	STODY	, , , , , , , , , , , , , , , , , , , ,	Randolph, NJ 07869
CLIENT & PROJECT	REPORTING & BI	LLING	Turnaround Time (starts the follo	wing day if samples rec'd at lab > 5PN	A)
Company E MA	Fax to:		Conditional / TPHC	Results needed by:	Report Format
	Fax #:		24 hr* 48 hr 72 hr 1 wk N	A	Results Only
Address:	EMail to:		Verbal/Fax		Reduced
	Report to:		24 hr* 48 hr* 72 hr* 1 wk* 2 wi	/Std >	Regulatory
	Address:		Hard Copy		SRP Disk**: dbf or wkl
Telephone #:			72 hr* 1 wk* 2 wk* 3 wk/Std		Special Requirements:
Fax#:			*Prior to sample arrival, Lab	notification is required. RUSH S	urcharge will apply
Project Name: 37L-16B River Ro	Invoice to:		ANALYTICAL PARAMETE	RS / PRESERVATIVES	** Circle format required
Project Manager: Aja, Kuthuria	Address:		456 456 456 456 4	2 3	1 2 3 4 5 6 Preservatives
Location of Site (STATE): River Estre N	/5		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		1. HCL 3. HNO ₃
Reference ID#: 203 711 PO#:			1/2	/ / / / /	2. NaOH 4. H ₂ SO ₄
CALCULE INCODE ATTON	W - Waste	MPLE MATRIX SL - Sludge A - Aqueous	16.4.7.4.4.38. Ammonia	/ / / / /	5. MeOH 6. Other
SAMPLE INFORMATION	O - Oil GW - Grot	X - Other S - Soil andwater: SOL - Solid			COOLER TEMP.
Sample ID Sample Depth (in Feet) Date	Sampling # Matrix	# of Containers Lab ID			Comments/Area of Concern
3Y-1A 3/4/	5 100 Sal	2 1 /	<i>j</i>		
3Y-1B	200	/ 3			
3y -1 C	130	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
3V-1 R	215	7 7 1			
		<del>                                     </del>			
Please print legibly and fill out completely. Samples canno	t be processed and the turnaround t	ime will not start until any amb	biguities have been resolved.	Known Hazard: Yes of No	MDL Req:
CUSTODY LOG				Describe:	GWQS or SCC
Signature/Company	Date Time	Signatu	re/Company	Conc. Expected: Low Med High	
Relinquished by:	3/4/5 315	Received by	7	nents:	_
Relinquished by:	- 14/05 53	Received by:	TAU	nentsr	
Relinquished by:		Received by:		Lab Case#	
Relinquished by:		Received by:			
Relinquished by:		Received by:		2014 Describ	OF
LAB COPIES - WHITE & YELLOW; CLIENT COPY - PINK	······································			,	PENTON

## PROJECT INFORMATION



Case No. E0	5-02014 Proje	ct BYL-16B RIVER RD.	- 203711		5-7		
Customer E	EWMA - HQ		P.O. #				
	ujay Kathuria jay.kathuria@ewma.com	EMail EDDs	Received Verbal Due	3/4/2005 17:30 3/21/2005			
Phone (	973) 560-1400 Fax	Report Due	3/28/2005				
Report To			<u>Bill To</u>				
Lanidex Cente	er		Lanidex Center				
100 Misty Lane			100 Misty Land	100 Misty Lane			
Parsippany, N	H 07054		Parsippany, NJ	07054			
	Attn: Ajay Kathuria			ıuria			
,							
Report Fo	rmat Reduced						
Additional	Info State Form	Field Sampling	Conditional VOA			•	
	ou	Depth Top / Bottom	n Sampling Time	Matrix	<u>Unit</u>	# of Containers	
<u>Lab ID</u> 02014-001	<u>Client Sample ID</u> 3Y-1A	n/a	3/4/2005@13:00	Soil	mg/Kg	2	
02014-001	3Y-1B	n/a	3/4/2005@14:00	Soil	mg/Kg	2	
02014-002	3Y-1C	n/a	3/4/2005@14:30	Soil	mg/Kg	2	
02014-003	3Y-1R	n/a	3/4/2005@14:15	Soil	mg/Kg	2	
	<u>'ests</u>	Status	OA Method				
	CL VO+10	Run	8260B				
	L BNA+20	Complete	8270C				
" PC		Run	8082				
	CL Pesticides	Run	8081A				
	AL Metals	In Process	6020/7471A				
	nmonia	Run	350.2 M				
	ranide, Total	Run	9014				
•	CL VO+10	Run	8260B				
	CL BNA+20	Complete	8270C				
" PC		Run	8082				
	CL Pesticides	Run	8081A				
	AL Metals	In Process	6020/7471A				
" An	nmonia	Run	350.2 M				
	anide, Total	Run	9014				
•	CL VO+10	Run	8260B				

Complete 8270C

Run

Run

Run

Run

Run

Complete

Run

Run

Run

8082

In Process 6020/7471A

8081A

350.2 M

9014

8260B

8270C

8082

In Process 6020/7471A

8081A

350.2 M

TCL BNA+20

TCL Pesticides

Cyanide, Total

TCL BNA+20

TCL Pesticides

TAL Metals

Ammonia

TAL Metals

Ammonia

004 TCL VO+10

**PCB** 

**PCB** 

### PROJECT INFORMATION



Case No. E05-02014

Project 3YL-16B RIVER RD. - 203711

Sample # Tests

**Status** 

**OA Method** 

Cyanide Total 9014

03/07/2005 09:57 by ELLEN - NOTE 1

VOA collected in Encor to be transferred to Methanol

### **SAMPLE RECEIPT VERIFICATION**

CASE NO: <b>E05 02014</b>	CLIENT: RWMA
COOLER TEMPERATURE: 2° - 6°0	C: ( See Chain of Custody)  Comments
COC: COMPLETE / INCOMPLET  KEY  V = YES/NA  X = NO	
<ul> <li>✓ Bottles Intact</li> <li>✓ no-Missing Bottles</li> <li>✓ no-Extra Bottles</li> </ul>	
<ul> <li>✓ Sufficient Sample Volume</li> <li>✓ no-headspace/bubbles in VC</li> <li>✓ Labels intact/correct</li> <li>✓ pH Check (exclude VOs)¹</li> <li>✓ Correct bottles/preservative</li> <li>✓ Sufficient Holding/Prep Time</li> </ul>	
the following tests: pH, Temperature, Free Residual ADDITIONAL COMMENTS:	s will be analyzed by this laboratory past the holding time. This includes but is not limited to Chlorine, Total Residual Chlorine, Dissolved Oxygen, Sulfite.  TAL DATE 3/4/60
CORRECTIVE ACTION REQUIR	ED: YESsee below, NO
CLIENT NOTIFIED: YE	Date/ Time: NO NO
PROJECT CONTACT:	
SUBCONTRACTED LAB: DATE SHIPPED:	
ADDITIONAL COMMENTS:	
VERIFIED/TAKEN BY: INIT	MAL JB DATE 3.7.05 REV 02/05 275

## LABORATORY CUSTODY CHRONICLE

Case No.

E05-02014

Client

EWMA - HQ

**Project** 

3YL-16B RIVER RD. - 203711

			Preparation		Analysis		
			Date / Time	Analyst	Date / Time	Analyst	
Department: Volatiles				,		V:	
TCL VO+10 - MeOH Preserved	02014-001	Soil	π/a 	n/a	3/15/05	Xing	
#	-002	Soil	n/a	n/a	3/15/05	Xing	
4	-003	Soil	n/a	n/a	3/15/05	Xing	
N	-004	Soil	n/a	n/a	3/15/05	Xing	
Department: Semivolatiles ICL BNA+20	02014-001	Soil	3/7/05	Kou-Liang	3/7/05	1C	
*	-002	Soil	3/7/05	Kou-Liang	3/7/05	JC	
•	-003	Soil	3/7/05	Kou-Liang	3/7/05	JC	
*	-004	Soil	3/7/05	Kou-Liang	3/7/05	JC	
Department: GC			210105	A		Maggio	
РСВ	02014-001	Soil	3/8/05	Archimede	3/13/05	Maggie	
н	-002	Soil	3/8/05	Archimede	3/13/05	Maggie	
*	-003	Soil	3/8/05	Archimede	3/13/05	Maggie	
**	-004	Soil	3/8/05	Archimede	3/13/05	Maggie	
TCL Pesticides	02014-001	Soil	3/8/05	Archimede	3/11/05	Mei	
•	-002	Soil	3/8/05	Archimede	3/11/05	Mei	
н	-003	Soil	3/8/05	Archimede	3/11/05	Mei	
el .	-004	Soil	3/8/05	Archimede	3/11/05	Mei	
Department: Metals	02014-001	Soil	3/7/05	Lisa	3/9/05	Helge	
TAL Metals		Soil	3/7/05	Lisa		Helge	
"	-002				3/9/05		
•	-003	Soil	3/7/05	Lisa	3/9/05	Helge	
н	-004	Soil	3/7/05	Lisa	3/9/05	Helge	
Department: Wet Chemistry Ammonia	02014-001	Soil	n/a	n/a	3/11/05	Jackie	
н	-002	Soil	n/a	n/a	3/11/05	Jackie	
w	-003	Soil	n/a	n/a	3/11/05	Jackie	
#	-004	Soil	n/a	n/a	3/11/05	Jackie	
- '1 m · 1	02014-001	Soil	n/a	n/a	3/15/05	Jackie	
Cyanide, Total			n/a	n/a		Jackie	
T	-002	Soil		_,	3/15/05	Jackie	
u	-003	Soil	n/a	n/a	3/15/05		
"	-004	Soil	n/a	n/a	3/15/05	Jackie	





### ANALYTICAL DATA REPORT

Environmental Waste Management Associates, LLC. Lanidex Center 100 Misty Lane Parsippany, NJ 07054

Project Name: 3YL-ASSOC/163 RIVER RD - 203711

IAL Case Number: E05-02111

These data have been reviewed and accepted by:

Michael H. Leftin, Ph.D.

Laboratory Director

# **Sample Summary**

Case No. E05-02111

Project Name 3YL-ASSOC/163 RIVER RD - 203711

Customer EWMA - HQ
Received On 3/8/2005@18:30

Lab ID Client Sample ID	Depth Top / Bottom	Sampling Time	<u>Matrix</u>	# of Coat.
02111-001 3Y-1D	n/a	3/7/2005@10:00	Soil	2
02111-002 3Y-3A	n/a	3/7/2005@13:30	Soil	2
02111-003 3Y-3B	n/a	3/7/2005@14:00	Soil	2
02111-004 3Y-3C	n/a	3/7/2005@15:30	Soil	2

Printed on: 3/23/2005 Page 1 of 1

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^{*} Methodology is included in the IAL Project Information Page

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^{*} Methodology is included in the IAL Project Information Page

#### **MATRIX QUALIFIERS**

- A Indicates the sample is an Aqueous matrix.
- O Indicates the sample is an Oil matrix.
- **S** Indicates the sample is a <u>S</u>oil, <u>S</u>ludge or <u>S</u>ediment matrix.
- x Indicates the sample is an Other matrix as indicated by Client Chain of Custody.

#### **DATA QUALIFIERS**

- B Indicates the analyte was found in the Blank and in the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of the analyte.
- **C** Common Laboratory Contaminant.
- D The compound was reported from the <u>D</u>iluted analysis.
- **D.F.** Dilution Factor.
- **E** <u>E</u>stimated concentration, reported results are outside the calibrated range of the instrument.
- J Indicates an estimated value. The compound was detected at a value below the method detection limit but greater than zero. For GC/MS procedures, the mass spectral data meets the criteria required to identify the target compound.
- MDL Method Detection Limit.
- MI Indicates compound concentration could not be determined due to Matrix Interferences.
- NA Not Applicable.
- ND Indicates the compound was analyzed for but Not Detected at the MDL.

#### **REPORT QUALIFIERS**

All solid sample analyses are reported on a dry weight basis.

All solid sample values are corrected for original sample size and percent solids.

# INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC ANALYSIS - PCB'S

Lab Case Number: E05 - OLIII

		No_	_Yes
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).	· -	
2.	Standards Summary submitted.		
3.	Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 12 hrs of the sample analysis.		
4.	Blank Contamination - If yes, list compounds and concentrations in each blank:		
5.	Surrogate Recoveries meet criteria (if applicable).  If not met, list those compounds and their recoveries which fall outside the acceptable range:	·	·. 
6.	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range) acceptable range:		/
7.	Retention Time Shift Meet Criteria (if applicable).		_/
8.	Extraction Holding Time Met.  If not met, list number of days exceeded for each sample:		
9.	Analysis Holding Time Met.  If not met, list number of days exceeded for each sample:		_/
	Comments:		
	Prganic Manager  3 10 05 Date		

#### INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY METAL ANALYSIS

Lab Case Number: E05-02111

		<u>No</u>	<u>Yes</u>
1.	Calibration Summary Meet Criteria.		<b>✓</b>
2.	ICP Interference Check Sample Results Meets Criteria (if applicable)		<b>✓</b>
3.	Serial Dilution Summary Submitted (if applicable) / Meets Criteria	<u></u>	✓
4.	Internal Standards Meet Criteria (if applicable)		<b>√</b>
5.	Laboratory Control Sample Summary Submitted (if applicable) / Meets Criteria	<u> </u>	_
6.	Blank Contamination: If yes, list compounds and concentrations in each blank	: <u> </u>	•
7.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria. (If not, list those compounds and their recoveries which fall outside the acceptable range).	 e	
8.	Extraction Holding Time Met. If not, list number of days exceeded for each sample:		
9.	Analysis Holding Time Met. If not, list number of days exceeded for each sample:		_
	Additional Comments:		
	H. Falek persence	arch 10, 2005	

Inorganic Manager

Date

# INTEGRATED ANALYTICAL LABORATORIES, LLC. SUMMARY REPORT

Client: Environmental Waste Management Associates, LLC.

Project: 3YL-ASSOC/163 RIVER RD - 203711

Lab Case No.: E05-02111

	Lab ID:	02111	-001	02	111	-002	021	111	-003	0211	1-004
	Client ID:	3Y-	1D	1 3	Y-:	3 <b>A</b>	3	Y	3B	.3Y	-3C
	Matrix:	So	il	:	So	iI	•	So	il	s	oil
:	Sampled Date	3/7/	05	:	3/7/	05	3	17/	05	3/	7/05
PARAMETER(Units)		Conc Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc C	MDL
Volatiles (mg/Kg-ppm)							i			1	
Benzene		ND	0.568	. 1.11		0.647	0.754	J	0.782	ND	0.573
Toluene	; !	ND		0.200		0.647	ND		0.782	ND	0.573
Ethylbenzene	i	ND	0.568	0.289			0.344		0.782 /	,	0.573
Total Xylenes		ND	0.568	0.264		0.647	0.185		0.782	ND	0.573
TOTAL VO's:		ND		1.86	J		1	J		ND	
TOTAL TIC's:		ND		0.880			29.2			0.585	
TOTAL VO's & TIC's:	1	ND		2.74	J		30.5	J		0.585	
Semivolatiles - BNA (mg/l	Kg-ppm)						:				
Naphthalene		ND	0.236	9.10		0.476	117		2.56	ND	0.243
2-Methylnaphthalene	:	ND	0.236	3.10		0.476	24.0		2.56	ND	0.243
Acenaphthylene	,	ND	0.236	2.77		0.476	4.60		2.56	ND	0.243
Acenaphthene		ND	0.236	4.53		0.476	46.5		2.56	ND	0.243
Dibenzofuran		ND	0.236	3.71		0.476	30.5		2.56	ND	<b>0.24</b> 3
Fluorene		ND	0.236	3.83		0.476	38.1		2.56	ND	0.243
Phenanthrene		ND	0.236	28.3		0.476	193		2.56	ND	0.243
Anthracene		ND	0.236	9.38		0.476	34.5		2.56	ND	0.243
Carbazole		ND	0.236	2.56		0.476	15.4		2.56	ND	0.243
Di-n-butylphthalate		ND	0.236	0.293	J	0.476	ND		2.56	ND	0.243
Fluoranthene		ND	0.236	62.6		0.476	175		2.56	ND	0.243
Pyrene		ND	0.236	45.9		0.476	127		2.56	ND	0.243
Benzo[a]anthracene		ND	0.236	30.5		0.476	65.2		2.56	ND	0.243
Chrysene		ND	0.236	37.1		0.476	73.9		2.56	ND	0.243
Benzo[b]fluoranthene		ND	0.236	27.8		0.476	46.2		2.56	ND	0.243
Benzo[k]fluoranthene		ND	0.236	27.8		0.476	38.3		2.56	ND	0.243
Benzo[a]pyrene		ND	0.236	32.4		0.476	55.9		2.56	ND	0.243
Indeno[1,2,3-cd]pyrene		ND	0.236	16.8		0.476	24.3		2.56	ND	0.243
Dibenz[a,h]anthracene		ND	0.236	10.0		0.476	12.1		2.56	ND	0.243
Benzo[g,h,i]perylene		ND	0.236	16.5		0.476	23.5		2.56	ND	0.243
TOTAL BNA'S:		ND		375	J		1150			ND	
TOTAL TIC's:		ND		71.5	_		70.7			ND	
TOTAL BNA'S & TIC's:		ND		447	J		1220		<del></del>	ND	
PCB's (mg/Kg-ppm)											0.010
Aroclor-1016		ND	0.016	ND		0.018	ND		0.019	ND	0.018
Aroclor-1221		ND	0.016	ND		0.018	ND		0.019	ND	0.018
Aroclor-1232		ND	0.016	ND		0.018	ND		0.019	ND	0.018
Aroclor-1242		ND	0.016	ND		0.018	ND		0.019	ND	0.018
Aroclor-1248		ND	0.016	ND		0.018	ND		0.019	ND	0.018
Aroclor-1254		ND	0.016	ND		0.018	ND		0.019	ND	0.018
Aroclor-1260		ND	0.016	ND		0.018	ND		0.019	ND	0.018

ND = Analyzed for but Not Detected at the MDL

J = The concentration was detected at a value below the MDL

All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.

# INTEGRATED ANALYTICAL LABORATORIES, LLC. SUMMARY REPORT

Client: Environmental Waste Management Associates, LLC. Project: 3YL-ASSOC/163 RIVER RD - 203711

Lab Case No.: E05-02111

	I ob III:	. 0711	1-001	N2:	11-002	0211	1-003	021	11-004
	Lab ID: Client ID:		'-1D	!	Y-3A	1	'-3B	1	Y-3C
	Matrix:		oil		Soil	l l	oil	1	Soil
	Sampled Date		7/05		3/7/05	1	7/05	1	/7/05
PARAMETER(Units)	Sampleu Date		) MDL	Conc		Conc C		Conc	
		Conc	Y MIDL	Conc	Q MIDE	Conc	( WIDE	Conc	Q MDL
Pesticides (mg/Kg-ppm)		ND	0.00396	ND	0.00442	ND	0.00468	ND	0.00449
alpha-BHC	:	ND	0.00396	F	0.00442	;	0.00468		0.00449
beta-BHC			0.00396		0.00442	!	0.00468	1	0.00449
gamma-BHC		ND ND	0.00396		0.00442	}	0.00468	ND	0.00449
delta-BHC		ND			0.00442	•	0.00468	ND	0.00449
Heptachlor		ND ND	0.00396 0.00396		0.00442	;	0.00468	ND	0.00449
Aldrin		ND ND	0.00396		0.00442	1	0.00468	ND	0.00449
Heptachlor epoxide			0.00396		0.00442	!	0.00468	ND	0.00449
Endosulfan I	•	ND				i		1	
4,4'-DDE		ND	0.00396		0.00442	i	0.00468	ND	0.00449
Dieldrin		ND	0.00396		0.00442	1	0.00468	l	0.00449
Endrin		ND	0.00396	ND	0.00442	:	0.00468		0.00449
Endosulfan II		ND	0.00396	ND	0.00442		0.00468	ND	0.00449
4,4'-DDD		ND	0.00396	ND	0.00442		0.00468		0.00449
Endrin aldehyde		ND	0.00396	ND	0.00442		0.00468		0.00449
Endosulfan sulfate		ND	0.00396	ND	0.00442	1	0.00468	ND	0.00449
4,4'-DDT		ND	0.00396	ND	0.00442		0.00468		0.00449
Endrin ketone		ND	0.00396	ND	0.00442		0.00468	ND	0.00449
Methoxychlor		ND	0.00396	ND	0.00442		0.00468	ND	0.00449
alpha-Chlordane		ND	0.00396	ND	0.00442		0.00468	ND	0.00449
gamma-Chlordane		ND	0.00396	ND	0.00442		0.00468		0.00449
Toxaphene		ND	0.020	ND	0.022	ND	0.023	ND	0.023
Metals (mg/Kg-ppm)									
Aluminum		3560	11.7	5830	11.8	2140	12.8	7630	12.2
Antimony		ND	1.17	ND	1.18	ND	1.28	ND	1.22
Arsenic		ND	1.17	16.9	1.18	5.04	1.28	3.27	1.22
Barium		14.6	11.7	60.9	11.8	27.8	12.8	44.0	12.2
Beryllium		ND	0.585	ND	0.590	ND	0.640	ND	0.608
Cadmium		ND	0.293	0.567	0.295	ND	0.320	0.410	0.304
Calcium		2600	58.5	4070	59.0	13900	64.0	880	60.8
Chromium		6.42	2.34	15.9	2.36	8.46	2.56	12.5	2.43
Cobalt		2.78	2.34	6.63	2.36	2.96	2.56	15.3	2.43
Copper		6.61	2.34	175	2.36	17.9	2.56	14.6	2.43
Iron		5930	29.3	21600	29.5	5940	32.0	14200	30.4
Lead		2.59	0.585	287	0.590	31.8	0.640	8.14	0.608
Magnesium		2800	58.5	1440	59.0	716	64.0	3510	60.8
Manganese		149	1.17	140	1.18	73.1	1.28	123	1.22
Mercury		ND	0.015	0.357	0.015	0.231	0.016	0.020	0.015
Nickel		6.00	1.17	19.5	1.18	7.63	1.28	16.0	1.22
Potassium		968	58.5	476	59.0	211	64.0	870	60.8
Selenium		ND	2.34	ND	2.36	ND	2.56	ND	2.43
Silver		ND	0.585	ND	0.590	ND	0.640	ND	0.608
Sodium		150	117	672	118	230	128	150	122
Thallium		ND	0.117	0.403	0.118	0.155	0.128	ND	0.122
Vanadium		9.06	2.34	19.3	2.36	7.42	2.56	14.6	2.43
Zinc	· · · · · · · · · · · · · · · · · · ·	17.0	2.34	184	2.36	25.1	2.56	41.2	2.43
General Analytical									
Cyanide, Total(mg/Kg-ppr	n)	ND	1.18	ND	1.19	4.73	1.28	ND	1.22
Ammonia(mg/Kg-ppm)		ND	0.236	ND	0.238	, ND	0.256	0.263	0.243

Phone # (973) 361-4252 Fax # (973) 989-5288

LAB COPIES - WHITE & YELLOW; CLIENT COPY - PINK

# INTEGRATED ANALYTICAL LABORATORIES CHAIN OF CUSTODY

273 Franklin Rd Randolph, NJ 07869

CLIENT & PRO	OJECT		REPO	RTIN	VG & BI	LLING		_	Turna	round 7	Cime (st	arts the	following	g day if s	amples r	ec'd at la	b > 5PM	1)		
Company E	WMA		Fax to:						Condi	tional /	TPHC				Results n	eeded by:			Repor	t Format
			Fax#:						24 hr*	48 hr	72 hr	1 wk	NA						Resu	its Only
Áddress:			EMail to	:				1	Verba	l/Fax									Re	duced
			Report to	D:					24 hr*	48 hr*	72 hr*	1 wk*	2 wk/Std	>					Reg	ulatory
			Address:						Hard										SRP Disk**	: dbf or wkl
Telephone #:								1	72 hr*	1 wk*	2 wk*	wk/Std	<b>.</b>					Special Requ	airements:	
Fax #:						*Pri	or to sai	nple ar	rival, L	ab noti	fication	is requ	ired. R	USH St	ırcharg	e will ap	ply			
Project Name: 3%	L-45501/ILS River	fd	Invoice t	0:				]	ANA.	LYTIC	AL PA	RAME	TERS	/PRE	SERV	ATIVE	ES .	*	* Circle fo	rmat required
Project Manager: 🎤	Fjay Kathunic	(	Address						1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6		1 2 3 4 5 6		1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6		Preservatives
Location of Site (STA	ITE): Edycarites.	NJ						]	$\sqrt{z}$	/ /					$\overline{}$	-7		$\overline{}$	1. HCL	3. HNO3
Reference ID#: 203	711 PO#:							] /	\\ \\	્જ/					/	/		/	2. NaOH	4. H,504
SAMPLE INFO	DRMATION					MPLE MAT SL - Sludge X - Other ndwater	A - Aqueou	· /	79/2 +30	M. W. W. C.									5. MeOH	26. Other
Sample ID	Sample Depth (in Feet)	Date	Sampling Time	am pr	NA namin	# of Containers	Lab ID	$\gamma_i$	1	$\tilde{s}/$	/			/	/	/	/	Con	L7	°C Concern
3Y-1D		3/7/5			Svil	2	1	1	1,	1	1							7 001	IIICHES A	1 CA OI CONCEIN
3 Y - 3A		1/1	130	$\top \top$	1	17	2	H	+(			<u> </u>								
3Y-3B			226				1	H				<b></b>		-				<del> </del>		
3Y-3C		1	37-	$\dagger \dagger$	10	1	4	V	1								<u> </u>			
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Please print legibly	and fill out completely. Sampl	les cannot be	processed a	and the	turnaround ti	me will not s	tart until an	ambi	guities hav	e been res	olved.	<u> </u>	<u> </u>	К	nown Haza	rd: Yes o	No.		MD	L Req:
CUSTODY LO	G											<b>-</b>		Describe						or SCC
	Signature/Company		Da		Time		Sig	natur	/Compai	ıy		]		Conc	. Expected	Loy Me	d High			
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## PROJECT INFORMATION



Case No.	E05-02111 Project	3YL-ASSOC/163 RIVE	R RD - 203711			Alexand Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market M
Customer	·		P.O. #			
Contact EMail	Ajay Kathuria ajay.kathuria@ewma.com	EMail EDDs	Verbal Due	3/8/2005 18:30 3/23/2005 3/30/2005		
Phone Report To	(	973) 560- <del>0</del> 400	Bill To	3/30/2003		
Lanidex Ce			Lanidex Center			
100 Misty	Lane		100 Misty Lane	;		
Parsippany	, NJ 07054		Parsippany, NJ	07054		
Attn: Ajay	Kathuria		Attn: Ajay Kath	uria	•	
Report I	Format Reduced					
Addition	aal Info 🔲 State Form	Field Sampling	Conditional VOA			
Lab ID	Client Sample ID 3Y-1D	<u>Depth Top / Bottom</u> n/a	Sampling Time 3/7/2005@10:00	<u>Matrix</u> Soil	<u>Unit</u>	# of Containers
02111-001		n/a	3/7/2005@10:00	Soil	mg/Kg mg/Kg	2
02111-002		n/a	3/7/2005@14:00	Soil	mg/Kg	2
02111-004		n/a	3/7/2005@15:30	Soil	mg/Kg	2

350.2 M

			•
02111-00	3 3Y-3B	n/a	3/7/2005@14:00
02111-00	04 3Y-3C	n/a	3/7/2005@15:30
Sample #	<u>Tests</u>	<u>Status</u>	QA Method
001	TCL VO+10	Run	8260B
•	TCL BNA+20	In Process	8270C
**	PCB	Run	8082
ш	TCL Pesticides	Run	8081A
**	TAL Metals	Complete	6020/7471A
•	Ammonia	Run	350.2 M
•	Cyanide, Total	Kun	9014
002	TCL VO+10	Run	8260B
H	TCL BNA+20	In Process	8270C
Ħ	PCB	Run	8082
**	TCL Pesticides	Run	8081A
*	TAL Metals	Complete	6020/7471A
**	Ammonia	Run	350.2 M
*	Cyanide, Total	Run	9014
003	TCL VO+10	Run	8260B
•	TCL BNA+20	In Process	8270C
•	PCB	Run	8082
*	TCL Pesticides	Run	8081A
*	TAL Metals	Complete	6020/7471A
*	Ammonia	Run	350.2 M
н	Cyanide, Total	Run	9014
004	TCL VO+10	Run	8260B
*	TCL BNA+20	In Process	8270C
"	PCB	Rua	8082
•	TCL Pesticides	Run	8081A
. **	TAL Metals	Complete	6020/7471A

Ammonia

#### **SAMPLE RECEIPT VERIFICATION**

CASE NO: <b>E05 02</b>	111 CLIENT: KWMA
COOLER TEMPERATURE: 2	
COC: COMPLETE / INCO	MPLETE
✓ = YES/NA × = NO	
✓ Bottles Intact ✓ no-Missing Bottles ✓ no-Extra Bottles	
✓ Sufficient Sample Vol ✓ no-headspace/bubble ✓ Labels intact/correct ✓ pH Check (exclude Vol ✓ Correct bottles/preser ✓ Sufficient Holding/Pre  Sample to be Subcon	os in VOs  Os) ¹ vative p Time'
•	ing times will be analyzed by this laboratory past the holding time. This includes but is not limited to tesidual Chlorine, Total Residual Chlorine, Dissolved Oxygen, Sulfite.
SAMPLE(S) VERIFIED BY:  CORRECTIVE ACTION RE	INITIAL DATE 3/8/5
CLIENT NOTIFIED:	YES Date/ Time: NO
PROJECT CONTACT:	
SUBCONTRACTED LAB: DATE SHIPPED:	
ADDITIONAL COMMENTS:	
VERIFIED/TAKEN BY:	INITIAL JB DATE 3. 9.05

DATE 3. 9.05 REV 02/05 25]

### LABORATORY CUSTODY CHRONICLE

Case No.

E05-02111

Client

**EWMA-HQ** 

**Project** 

3YL-ASSOC/163 RIVER RD - 203711

Project <u>31L-A550C/10</u>	3 KI VEK KD - 203	<u> </u>	•						
			Preparation		Analysis				
			Date / Time	Analyst	Date / Time	Analyst			
Department: Volatiles						•••			
TCL VO+10 - MeOH Preserved	02111-001	Soil	n/a	n/a	3/15/05	Xing			
n .	-002	Soil	n/a	n/a	3/15/05	Xing			
91	-003	Soil	n/a	n/a	3/15/05	Xing			
#	-004	Soil	n/a	n/a	3/15/05	Xing			
Department: Semivolatiles TCL BNA+20	02111-001	Soil	3/11/05	Kou-Liang	3/15/05	JC			
н	-002	Soil	3/11/05	Kou-Liang	3/15/05	JC .			
**	-003	Soil	3/11/05	Kou-Liang	3/15/05	JC			
М	-004	Soil	3/11/05	Kou-Liang	3/15/05	JC			
D 4 4 66									
Department: GC PCB	02111-001	Soil	3/10/05	Archimede	3/16/05	Maggie			
н	-002	Soil	3/10/05	Archimede	3/16/05	Maggie			
н	-003	Soil	3/10/05	Archimede	3/16/05	Maggie			
"	-004	Soil	3/10/05	Archimede	3/16/05	Maggie			
TCL Pesticides	02111-001	Soil	3/10/05	Archimede	3/16/05	Mei			
et .	-002	Soil	3/10/05	Archimede	3/16/05	Mei			
N	-003	Soil	3/10/05	Archimede	3/16/05	Mei			
e	-004	Soil	3/10/05	Archimede	3/16/05	Mei			
Department: Metals	02111-001	Soil	3/9/05	Lisa	2/21/05	Helge			
TAL Metals		Soil	3/9/05	Lisa	3/21/05	Helge			
	-002				3/21/05				
	-003	Soil	3/9/05	Lisa	3/21/05	Helge			
**	-004	Soil	3/9/05	Lisa	3/21/05	Helge			
Department: Wet Chemistry		a :-	,						
Ammonia	02111-001	Soil	n/a 	n/a 	3/21/05	Jackie ————			
ч	-002	Soil	n/a	n/a	3/21/05	Jackie			
*	-003	Soil	n/a	n/a	3/21/05	Jackie			
п	-004	Soil	n/a	n/a	3/21/05	Jackie			
Cyanide, Total	02111-001	Soil	n/a	n/a	3/18/05	Jackie			
н	-002	Soil	n/a	n/a	3/18/05	Jackie			
н	-003	Soil	n/a	п/а	3/18/05	Jackie			
н	-004	Soil	n/a	n/a	3/18/05	Jackie			

Review and Approval: <u>Mudynyyy</u>



## ANALYTICAL DATA REPORT

Environmental Waste Management Associates, LLC.

Lanidex Center
100 Misty Lane
Parsippany, NJ 07054

Project Name: 163 RIVER RD. EDGEWATER NJ - 203711

IAL Case Number: E05-02152

These data have been reviewed and accepted by:

Michael H. Leftin, Ph.D. Laboratory Director

## **Sample Summary**

Case No.

E05-02152

Project Name 163 RIVER RD. EDGEWATER NJ - 203711

Customer

EWMA - HQ

Received On

3/9/2005@13:00

Lab ID	Client Sample 1D	Depth Top / Battom	Sampling Time	<u>Matrix</u>	# of Cont.
02152-001	3Y-3D	n/a	3/8/2005@09:30	Soil	2
02152-002		n/a	3/8/2005@11:00	Soil	2
02152-003	3Y-5B	n/a	3/8/2005@11:30	Soil	2
02152-004	3Y-5C	n/a	3/8/2005@13:00	Soil	2
02152-005	3Y-5D	n/a	3/8/2005@15:00	Soil	2
02152-006	3Y-5R	n/a	3/8/2005@14:00	Soil	2

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Surrogate Compound Recovery Results Summary	
Matrix Spike/Matrix Spike Duplicate Results Summary	
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^{*} Methodology is included in the IAL Project Information Page

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^{*} Methodology is included in the IAL Project Information Page

#### **MATRIX QUALIFIERS**

- A Indicates the sample is an Aqueous matrix.
- O Indicates the sample is an Oil matrix.
- **S** Indicates the sample is a <u>S</u>oil, <u>S</u>ludge or <u>S</u>ediment matrix.
- x Indicates the sample is an Other matrix as indicated by Client Chain of Custody.

#### **DATA QUALIFIERS**

- **B** Indicates the analyte was found in the <u>B</u>lank and in the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of the analyte.
- **C** Common Laboratory Contaminant.
- **D** The compound was reported from the <u>D</u>iluted analysis.
- D.F. Dilution Factor.
- **E** <u>E</u>stimated concentration, reported results are outside the calibrated range of the instrument.
- J Indicates an estimated value. The compound was detected at a value below the method detection limit but greater than zero. For GC/MS procedures, the mass spectral data meets the criteria required to identify the target compound.
- MDL Method Detection Limit.
- MI Indicates compound concentration could not be determined due to Matrix Interferences.
- NA Not Applicable.
- ND Indicates the compound was analyzed for but Not Detected at the MDL.

#### **REPORT QUALIFIERS**

All solid sample analyses are reported on a dry weight basis.

All solid sample values are corrected for original sample size and percent solids.



#### **CONFORMANCE / NONCONFORMANCE SUMMARY**

Integrated Analytical Laboratories, LLC. received six (6) soil sample(s) from Environmental Management Associates, LLC. (Project: 163 RIVER RD. EDGEWATER NJ - 203711) on family 9, 2005 for the analysis of:

- (6) TCL VO+10
- (6) TCL BNA+20
- (6) PCB
- (6) TCL Pesticides
- (6) TAL Metals
- (6) Ammonia
- (6) Cyanide, Total

A review of the QA/QC measures for the analysis of the sample(s) contained in this report has been performed by:

Augustufus Reviewed by ე | <u>2</u> 3 | ი*ട* Date

#### LABORATORY DELIVERABLES CHECK LIST

Lab Case Number: E05-02152

1. Cover Page, Title Page listing Lab Certification #, facility name & address and date of report preparation.  2. Table of Contents.  3. Summary Sheets listing analytical results for all targeted and non-targeted compounds.  4. Summary Table cross-referencing Field ID's vs. Lab ID's.  5. Document bound, paginated and legible.  6. Chain of Custody.  7. Methodology Summary.  8. Laboratory Chronicle and Holding Time Check.  9. Results submitted on a dry weight basis (if applicable).  10. Method Detection Limits.  11. Lab certified by NJDEP for parameters or appropriate category of parameters or a member of the USEPA CLP.  12. NonConformance Summary.			Check If Complete
2. Table of Contents.  3. Summary Sheets listing analytical results for all targeted and non-targeted compounds.  4. Summary Table cross-referencing Field ID's vs. Lab ID's.  5. Document bound, paginated and legible.  6. Chain of Custody.  7. Methodology Summary.  8. Laboratory Chronicle and Holding Time Check.  9. Results submitted on a dry weight basis (if applicable).  10. Method Detection Limits.  11. Lab certified by NJDEP for parameters or appropriate category of parameters or a member of the USEPA CLP.	1.	Cover Page, Title Page listing Lab Certification #, facility name	✓
3. Summary Sheets listing analytical results for all targeted and non-targeted compounds.  4. Summary Table cross-referencing Field ID's vs. Lab ID's.  5. Document bound, paginated and legible.  6. Chain of Custody.  7. Methodology Summary.  8. Laboratory Chronicle and Holding Time Check.  9. Results submitted on a dry weight basis (if applicable).  10. Method Detection Limits.  11. Lab certified by NJDEP for parameters or appropriate category of parameters or a member of the USEPA CLP.		& address and date of report preparation.	
non-targeted compounds.  4. Summary Table cross-referencing Field ID's vs. Lab ID's.  5. Document bound, paginated and legible.  6. Chain of Custody.  7. Methodology Summary.  8. Laboratory Chronicle and Holding Time Check.  9. Results submitted on a dry weight basis (if applicable).  10. Method Detection Limits.  11. Lab certified by NJDEP for parameters or appropriate category of parameters or a member of the USEPA CLP.	2.	Table of Contents.	
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5. Document bound, paginated and legible.  6. Chain of Custody.  7. Methodology Summary.  8. Laboratory Chronicle and Holding Time Check.  9. Results submitted on a dry weight basis (if applicable).  10. Method Detection Limits.  11. Lab certified by NJDEP for parameters or appropriate category of parameters or a member of the USEPA CLP.		non-targeted compounds.	
<ol> <li>Chain of Custody.</li> <li>Methodology Summary.</li> <li>Laboratory Chronicle and Holding Time Check.</li> <li>Results submitted on a dry weight basis (if applicable).</li> <li>Method Detection Limits.</li> <li>Lab certified by NJDEP for parameters or appropriate category of parameters or a member of the USEPA CLP.</li> </ol>	4.	Summary Table cross-referencing Field ID's vs. Lab ID's.	<b>✓</b>
<ol> <li>Methodology Summary.</li> <li>Laboratory Chronicle and Holding Time Check.</li> <li>Results submitted on a dry weight basis (if applicable).</li> <li>Method Detection Limits.</li> <li>Lab certified by NJDEP for parameters or appropriate category of parameters or a member of the USEPA CLP.</li> </ol>	5.	Document bound, paginated and legible.	
8. Laboratory Chronicle and Holding Time Check.  9. Results submitted on a dry weight basis (if applicable).  10. Method Detection Limits.  11. Lab certified by NJDEP for parameters or appropriate category of parameters or a member of the USEPA CLP.	6.	Chain of Custody.	
<ul> <li>9. Results submitted on a dry weight basis (if applicable).</li> <li>10. Method Detection Limits.</li> <li>11. Lab certified by NJDEP for parameters or appropriate category of parameters or a member of the USEPA CLP.</li> </ul>	7.	Methodology Summary.	
<ul> <li>10. Method Detection Limits.</li> <li>11. Lab certified by NJDEP for parameters or appropriate category of parameters or a member of the USEPA CLP.</li> </ul>	8.	Laboratory Chronicle and Holding Time Check.	
11. Lab certified by NJDEP for parameters or appropriate category of parameters or a member of the USEPA CLP. ✓	9.	Results submitted on a dry weight basis (if applicable).	
parameters or a member of the USEPA CLP.	10.	Method Detection Limits.	
	11.	Lab certified by NJDEP for parameters or appropriate category of	
12. NonConformance Summary.		parameters or a member of the USEPA CLP.	
mameryn 3/23/05	12.	NonConformance Summary.	
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Or Rhyjewed by Date		Many Many 3	<i>23</i>   o <i>S</i> ate

# INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC/MS VOLATILE ANALYSIS

	Lab Case Number: E05 - 62 52	•1-	.,
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).	<u>No</u>	Yes ✓
2.	GC/MS Tuning Specifications: a. BFB Passed		/
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series, 12 hours for 8000 series and 8 hours for 500 series.		
4.	GC/MS Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours before sample analysis for 600 series, 12 hours for 8000 series		
<b>5</b> .	GC/MS Calibration Requirements: a. Calibration Check Compounds		
	b. System Performance Check Compounds		
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:	<b>✓</b>	
7.	Surrogate Recoveries Meet Criteria (If not met, list those compounds and their recoveries which fall outside the acceptable range)		
	If not met, were the calculations checked and the results qualified as "estimated"?		na
8.	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range)	<del></del>	
9.	Internal Standard Area/Retention Time Shift meet criteria		
10.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:		MA
11.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:		
	11 not met, list number of days exceded for each sample.	,	
12.	Sample Dilution Performed  High Nontarget Matrix Interference Other  Compounds Compounds		
13.	Comments:		
	Organics Manager 3 10 05  Date		

# INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC/MS SEMIVOLATILE ANALYSIS

	Lab Case Number: E05 - 02   52		
		<u>No</u>	Yes
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).	<del></del>	
2.	GC/MS Tuning Specifications: a. DFTPP Passed		
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series, 12 hours for 8000 series.		
4.	GC/MS Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours before sample analysis for 600 series.		<u>√</u> :
	GC/MS Calibration Requirements: a. Calibration Check Compounds b. System Performance Check Compounds		<b>√</b>
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:  a. B/N Fraction  b. Acid Fraction	<u> </u>	
7.	Surrogate Recoveries Meet Criteria (If not met, list those compounds and their recoveries which fall outside the acceptable range)  a. B/N Fraction  b. Acid Fraction		✓
	If not met, were the calculations checked and the results qualified as "estimated"?		na
8.	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range)  a. B/N Fraction  b. Acid Fraction	•	✓
9.	Internal Standard Area/Retention Time Shift meet criteria		
10.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:		<b>√</b>
<b>`11</b> .	. Analysis Holding Time Met If not met, list number of days exceeded for each sample:	·	· ✓
12	. Sample Dilution Performed		<b>/</b>
,	High Target High Nontarget Matrix Interference Other Compounds		
13.	. Comments:		
	Organics Manager 3-17-05 Date		

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# INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC ANALYSIS - PCB'S

	Lab Case Number: E05 - 07-152		
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).	<u>No</u>	_Yes
_			
2.	Standards Summary submitted.		
3.	Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 12 hrs of the sample analysis.		
4.	Blank Contamination - If yes, list compounds and concentrations in each blank:		
<b>5</b> .	Surrogate Recoveries meet criteria (if applicable).  If not met, list those compounds and their recoveries which fall outside the acceptable range:		·. 
6.	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range) acceptable range:		
7.	Retention Time Shift Meet Criteria (if applicable).	<u> </u>	
8.	Extraction Holding Time Met.	•	<b>\</b>
	If not met, list number of days exceeded for each sample:	-	
9.	Analysis Holding Time Met.  If not met, list number of days exceeded for each sample:	-	
	Comments:	-	
		<u>.</u>	

Organic Manager

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# INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC ANALYSIS - PESTICIDES

Lab Case Number: E05 - 02/52

		No_	Yes
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).		
2.	Standards Summary submitted.		V
3.	Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 12 hrs of the sample analysis.		<u> </u>
<b>4</b> .	Blank Contamination - If yes, list compounds and concentrations in each blank:		
5.	Surrogate Recoveries meet criteria (if applicable).  If not met, list those compounds and their recoveries which fall outside the acceptable range:		<u></u>
6.	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range) acceptable range:		V
7.	Retention Time Shift Meet Criteria (if applicable).		V
8.	Extraction Holding Time Met.  If not met, list number of days exceeded for each sample:		<u> </u>
9.	Analysis Holding Time Met.  If not met, list number of days exceeded for each sample:		_ <i>V</i> _
	Comments:		
	Of /14/05  Organic Manager  Date		

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# INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY METAL ANALYSIS

Lab Case Number: E05-02152

			<u>No</u>	<u>Yes</u>
1.	Calibration Summary Meet Criteria.			✓
2.	ICP Interference Check Sample Results Meets Criteria (if applicable)			<u> </u>
3.	Serial Dilution Summary Submitted (if applicable) / Meets Criteria			<b>✓</b>
4.	Internal Standards Meet Criteria (if applicable)			_
5.	Laboratory Control Sample Summary Submitted (if applicable) / Meets Criteria			_
6.	Blank Contamination: If yes, list compounds and concentrations in each blank:	•	<b>✓</b>	
7.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria. (If not, list those compounds and their recoveries which fall outside the acceptable range).			
8.	Extraction Holding Time Met. If not, list number of days exceeded for each sample:	<del>-</del>		_
9.	Analysis Holding Time Met. If not, list number of days exceeded for each sample:			_
	Additional Comments:			
	Mar Inorganic Manager	ch 11, 20 Date	005	_

#### **SUMMARY REPORT**

#### Client: Environmental Waste Management Associates, LLC. Project: 163 RIVER RD. EDGEWATER NJ - 203711

Lab Case No.: E05-02152

			10 1203-02132		00150 000		100470.004	
Lab ID:	0215	2-001	E	52-002		52-003	•	52-004
Client ID:	3Y	-3D	3	Y-5A	!	<b>∕-5B</b>	:	<b>/-5</b> C
Matrix:	Soil 3/8/05		1	Soil	1	Soil	,	Soil
Sampled Date			3	/8/05	3/	8/05	3/	8/05
PARAMETER(Units)	Conc (	MDL	Conc C	MDL_	Conc Q	MDL	Conc C	MDL
Volatiles (mg/Kg-ppm)								
Total Xylenes	ND	0.602	ND	0.723	0.696 J	0.865	ND	0.681
							!	
TOTAL VO's:	ND		ND		0.696 J		ND	
TOTAL TIC's:	ND		ND		38.9		ND	
TOTAL VO's & TIC's:	ND		ND		39.6 J		ND	
Semivolatiles - BNA (mg/Kg-ppm)							i	
Naphthalene	ND	0.122	ND	0.105	5.58	1.69	1.04	0.443
2-Methylnaphthalene	ND	0.122	ND	0.105	1.98	1.69	ND	0.443
Acenaphthylene	ND	0.122	0.115	0.105	3.48	1.69	ND	0.443
Acenaphthene	ND	0.122	0.097 J	0.105	11.2	1.69	0.496	0.443
Dibenzofuran	ND	0.122	ND	0.105	7.88	1.69	0.339 J	
Fluorene	ND	0.122	ND	0.105	16.1	1.69	0.451	0.443
Phenanthrene	ND	0.122	0.839	0.105	106	1.69	2.62	0.443
Anthracene	ND	0.122	0.287	0.105	42.6	1.69	0.732	0.443
Carbazole	ND	0.122	0.088 J	0.105	3.04	1.69	ND	0.443
Fluoranthene	ND	0.122	2.47	0.105	118	1.69	2.10	0.443
Pyrene	ND	0.122	2.88	0.105	115	1.69	2.16	0.443
Butylbenzylphthalate	ND	0.122	7.61	0.105	ND	1.69	ND	0.443
Benzo[a]anthracene	ND	0.122	1.60	0.105	42.6	1.69	0.926	0.443
<del>-</del> -	ND	0.122	2.15	0.105	43.0	1.69	1.02	0.443
Chrysene	ND	0.122	0.577	0.105	ND	1.69	ND	0.443
bis(2-Ethylhexyl)phthalate	ND	0.122	1.55	0.105	26.1	1.69	0.605	0.443
Benzo[b]fluoranthene	ND	0.122	1.57	0.105	20.9	1.69	0.450	0.443
Benzo[k]fluoranthene	ND	0.122	1.84	0.105	33.2	1.69	0.746	0.443
Benzo[a]pyrene	ND	0.122	1.17	0.105	15.7	1.69	0.389 J	0.443
Indeno[1,2,3-cd]pyrene	ND	0.122	0.677	0.105	6.86	1.69	ND	0.443
Dibenz[a,h]anthracene	ND	0.122	1.37	0.105	17.2	1.69	0.405 J	0.443
Benzo[g,h,i]perylene	ND_	0.122	1.57	0.105	17.2	1.05		
TOTAL BNA'S:	ND		26.9 J	ſ	636		14.5 J	
TOTAL TIC's:	ND		4.96		37.1		4.51	
TOTAL BNA'S & TIC's:	ND	<u> </u>	31.9		673		19.0 J	
PCB's (mg/Kg-ppm)								
Aroclor-1016	ND	0.018	ND	0.015	ND	0.023	ND	0.034
Aroclor-1221	ND	0.018	ND	0.015	ND	0.023	ND	0.034
Aroclor-1232	ND	0.018	ND	0.015	ND	0.023	ND	0.034
Aroclor-1242	ND	0.018	ND	0.015	ND	0.023	ND	0.034
Aroclor-1248	ND	0.018	ND	0.015	ND	0.023	ND	0.034
Aroclor-1254	ND	0.018	ND	0.015	ND	0.023	ND	0.034
Aroclor-1260	ND	0.018	ND	0.015	ND	0.023	ND	0.034

ND = Analyzed for but Not Detected at the MDL

J = The concentration was detected at a value below the MDL

All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.

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#### **SUMMARY REPORT**

Client: Environmental Waste Management Associates, LLC. Project: 163 RIVER RD. EDGEWATER NJ - 203711

Lab Case No.: E05-02152

		Lab Case			00:	E2 002	001	52.004
Lab ID:	,		ł	02152-002	1	152-003	02152-004	
Client ID:	3Y-3D			3Y-5A	] 3	Y-5B	1	Y-5C
Matrix:		oil		Soil	Soil		1	Soil
Sampled Date		3/05		3/8/05	1	3/8/05		/8/05
PARAMETER(Units)	Conc C	MDL	Conc	Q MDL	Conc	Q MDL	Conc	Q MDL
Pesticides (mg/Kg-ppm)								
alpha-BHC	ND	0.00461	ND	0.00368	ND	0.00578	ND	0.00852
beta-BHC	ND	0.00461	ND	0.00368	ND	0.00578	ND	0.00852
gamma-BHC	ND	0.00461	ND	0.00368	ND	0.00578	ND	0.00852
delta-BHC	ND	0.00461	ND	0.00368	ND	0.00578	ND	0.00852
Heptachlor	ND	0.00461	ND	0.00368	ND	0.00578	ND	0.00852
Aldrin	ND	0.00461	ND	0.00368	ND	0.00578	ND	0.00852
Heptachlor epoxide	ND	0.00461	ND	0.00368	ND	0.00578	ND	0.00852
Endosulfan I	ND	0.00461	ND	0.00368	ND	0.00578	ND	0.00852
4,4'-DDE	ND	0.00461	ND	0.00368	ND	0.00578	ND	0.00852
Dieldrin	ND	0.00461	ND	0.00368	ND	0.00578	ND	0.00852
Endrin	ND	0.00461	ND	0.00368	ND	0.00578	ND	0.00852
Endosulfan II	ND	0.00461	ND	0.00368	ND	0.00578	ND	0.00852
4,4'-DDD	ND	0.00461	ND	0.00368	ND	0.00578	ND	0.00852
Endrin aldehyde	ND	0.00461	ND	0.00368	ND	0.00578	ND	0.00852
Endosulfan sulfate	ND	0.00461	ND	0.00368	ND	0.00578	ND	0.00852 0.00852
4,4'-DDT	ND	0.00461	ND	0.00368	ND	0.00578	ND	
Endrin ketone	ND	0.00461	ND	0.00368	ND	0.00578	ND	0.00852
Methoxychlor	ND	0.00461	ND	0.00368	ND	0.00578	ND	0.00852
alpha-Chlordane	ND	0.00461	ND	0.00368	ND	0.00578	ND	0.00852
gamma-Chlordane	ND	0.00461	ND ND	0.00368 0.018	ND ND	0.00578 0.029	ND ND	0.00852 0.043
Toxaphene	ND	0.023	ND	0.016	ND	0.027	ND	0.045
Metals (mg/Kg-ppm)				260	1540	17.2	0750	22.0
Aluminum	12100	12.4	13200	268	1540	17.2	8750	23.0
Antimony	ND	1.24	ND	1.07	ND	1.72	ND 6.40	2.30
Arsenic	8.51	1.24	3.50	1.07	2.84	1.72	5.49 ND	2.30 23.0
Barium	79.9	12.4	32.8	10.7	30.5	0.858	ND ND	1.15
Beryllium	1.03	0.618	ND	0.535	ND ND	0.838	ND	0.575
Cadmium	0.490	0.309	ND	0.268	l	2150	2740	115
Calcium	4860	61.8	6010	53.5	261000	3.43	16.3	4.60
Chromium	21.5	2.47	16.2	2.14	5.28	3.43	7.63	4.60
Cobalt	14.8	2.47	8.02	2.14	ND ND	3.43	8.19	4.60
Copper	42.6	2.47	38.7	2.14 26.8	1340	42.9	16400	57.5
Iron	18900	30.9	13800 24.4	0.535	32.1	0.858	7.12	1.15
Lead	42.7	0.618	4820	53.5	4250	85.8	3400	115
Magnesium	8490	61.8	256	1.07	27.6	1.72	149	2.30
Manganese	590	1.24	ı	0.014	0.316	0.022	0.034	0.029
Mercury	ND 25.0	0.016 1.24	0.056 18.8	1.07	4.01	1.72	14.8	2.30
Nickel	25.0 3100	61.8	457	53.5	ND	85.8	1610	115
Potassium	ND	2.47	ND	2.14	ND	3.43	ND	4.60
Selenium	ND ND	0.618	ND	0.535	ND	0.858	ND	1.15
Silver	728	124	972	107	ND	172	1290	230
Sodium Thallium	0.453	0.124	ND	0.107	ND	0.172	ND	0.230
Vanadium	38.8	2.47	22.2	2.14	4.92	3.43	19.7	4.60
Zinc	170	2.47	37.2	2.14	8.00	3.43	37.8	4.60
General Analytical								
Cyanide, Total(mg/Kg-ppm)	ND	1.25	ND	1.07	282	17.3	3.62	2.29
Ammonia(mg/Kg-ppm)	0.300	0.250	0.556	0.214	ND	0.346	2.16	0.458
viiiiiniia(iiik) v.khhiii)	0.300	0.230	1 0.220	V.2.1.7		J.2. (V		

ND = Analyzed for but Not Detected at the MDL

MANUAL IN THE RECORD BUT OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF THE ORIGINAL OF TH

#### **SUMMARY REPORT**

Client: Environmental Waste Management Associates, LLC. Project: 163 RIVER RD. EDGEWATER NJ - 203711

Lab Case No.: E05-02152

Lab ID:	02	005	02152-006					
Client ID:	i	Y-5		!		Y-5R		
Matrix:	i	Soi		:	Soil			
Sampled Date	1	3/8/0			3/8/05			
PARAMETER(Units)	Conc	Q	MDL	Conc	Q	MDL		
Volatiles (mg/Kg-ppm)				:				
TOTAL VO's:	ND		0.588	ND		0.581		
TOTAL TIC's:	ND		0.000	ND				
TOTAL TIC's. TOTAL VO's & TIC's:	ND			ND				
Semivolatiles - BNA (mg/Kg-ppm)								
Naphthalene	0.275		0.118	0.437		0.198		
2-Methylnaphthalene	0.121		0.118	0.132	J	0.198		
Acenaphthene	0.252		0.118	0.338		0.198		
Dibenzofuran	0.181		0.118	0.228		0.198		
Fluorene	0.298		0.118	0.301		0.198		
Phenanthrene	1.56		0.118	1.70		0.198		
Anthracene	0.472		0.118	0.371		0.198		
Carbazole	0.121		0.118	0.183	J	0.198		
Fluoranthene	1.28		0.118	1.10		0.198		
Pyrene	1.23		0.118	1.13		0.198		
Benzo[a]anthracene	0.525		0.118	0.425		0.198		
Chrysene	0.528		0.118	0.479		0.198		
Benzo[b]fluoranthene	0.234		0.118	0.210		0.198		
Benzo[k]fluoranthene	0.364		0.118	0.302		0.198		
Benzo[a]pyrene	0.405		0.118	0.347		0.198		
Indeno[1,2,3-cd]pyrene	0.211		0.118	0.154	J	0.198		
Dibenz[a,h]anthracene	0.090	J	0.118	ND		0.198		
Benzo[g,h,i]perylene	0.244		0.118	0.174	J	0.198		
			-		_			
TOTAL BNA'S:	8.39	J		8.01	J			
TOTAL TIC's:	ND	_		16.2	_			
TOTAL BNA'S & TIC's:	8.39	J		24.2	J			
PCB's (mg/Kg-ppm)								
Aroclor-1016	ND		0.017	ND		0.032		
Aroclor-1221	ND		0.017	ND		0.032		
Aroclor-1232	ND		0.017	ND		0.032		
Aroclor-1242	ND		0.017	ND		0.032		
Aroclor-1248	ND		0.017	ND		0.032		
Aroclor-1254	ND		0.017	ND		0.032		
Aroclor-1260	ND		0.017	ND		0.032		

ND = Analyzed for but Not Detected at the MDL

J = The concentration was detected at a value below the MDL

All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.

#### **SUMMARY REPORT**

Client: Environmental Waste Management Associates, LLC. Project: 163 RIVER RD. EDGEWATER NJ - 203711

Lab (	Case	No.:	E05-02152	
-------	------	------	-----------	--

Lab ID	: 02	152-005	02152-006			
Client ID	1	SY-5D	3Y-5R			
Matrix	1	Soil	Soil			
Sampled Date	1	3/8/05		3/8/05		
PARAMETER(Units)	Conc	Q MDL	Conc	;		
Pesticides (mg/Kg-ppm)			-			
	ND	0.00419	ND	0.00791		
alpha-BHC beta-BHC	ND	0.00419	ND	0.00791		
gamma-BHC	ND	0.00419	ND	0.00791		
delta-BHC	ND	0.00419	ND	0.00791		
Heptachlor	ND	0.00419	ND	0.00791		
Aldrin	ND	0.00419	ND	0.00791		
Heptachlor epoxide	ND	0.00419	ND	0.00791		
Endosulfan I	ND	0.00419	ND	0.00791		
4,4'-DDE	ND	0.00419		0.00791		
Dieldrin	ND	0.00419	ND	0.00791		
Endrin	ND	0.00419	ND	0.00791		
Endosulfan II	ND	0.00419	ND	0.00791		
4,4'-DDD	ND	0.00419	ND	0.00791		
Endrin aldehyde	ND	0.00419	ND	0.00791		
Endosulfan sulfate	ND	0.00419	ND	0.00791		
4,4'-DDT	ND	0.00419	ND	0.00791		
Endrin ketone	ND	0.00419	ND	0.00791		
Methoxychlor	ND	0.00419	ND	0.00791		
alpha-Chlordane	ND	0.00419	ND	0.00791		
gamma-Chlordane	ND	0.00419	ND	0.00791		
Toxaphene	ND	0.021	ND	0.040		
Metals (mg/Kg-ppm)						
Aluminum	7330	12.0	9510	20.3		
Antimony	ND	1.20	ND	2.03		
Arsenic	3.09	1.20	2.07	2.03		
Barium	62.8	12.0	21.6	20.3		
Beryllium	ND	0.600	ND	1.02		
Cadmium	0.427	0.300	ND	0.508		
Calcium	3000	60.0	1320	102		
Chromium	22.3	2.40	17.0	4.06		
Cobalt	4.91	2.40	5.25	4.06		
Copper	14.3	2.40	11.0	4.06		
Iron	11400	30.0	13400	50.8		
Lead	8.07	0.600	6.23	1.02		
Magnesium	5200	60.0	3440	102		
Manganese	373	1.20	156	2.03		
Mercury	ND	0.015	0.030	0.025		
Nickel	10.7	1.20	14.1	2.03		
Potassium	3500	60.0	1470	102		
Selenium	ND	2.40	ND	4.06		
Silver	ND	0.600	ND	1.02		
Sodium	477	120	1160	203		
Thallium	0.149	0.120	ND	0.203		
Vanadium	27.9	2.40	18.1	4.06 4.06		
Zinc	35.3	2.40	35.5	4.00		
General Analytical						
Cyanide, Total(mg/Kg-ppm)	ND	1.20	ND	2.04		
Ammonia(mg/Kg-ppm)	ND	0.240	1.53	0.409		
ND = Analyzed for but Not Detected	at the MD	)L				

ND = Analyzed for but Not Detected at the MDL

Phone # (973) 361-4252 Fax # (973) 989-5288

# INTEGRATED ANALYTICAL LABORATORIES CHAIN OF CUSTODY

273 Franklin Rd Randolph, NJ 07869

DEV/10/07

CLIENT & PROJ	IECT		REPO	RTIN	G & BII	LLING			Turnar	ound T	ime (st	arts the f	ollowing	day if s	amples r	ec'd at la	b > 5P1	MI)		
Company E W	MA		Fax to:						Condit	ional / '	TPHC		Results needed by:						Report	Format
			Fax #:						24 hr*	48 hr	72 hr	1 wk	NA			1. 1. J.	Section 1		Resul	its Only
Address:			EMail to	:					<u>Verbal</u>	/Fax					4.367		SEAT 15		Ren	duced
			Report to	):					24 hr*	48 hr*	72 hr*	1 wk* (	2wk/Std	ン	estign Fileson	eren e	Ž.,		Reg	ulatory
			Address:						Hard C	Copy		<i>A</i> .			id it		OSSEL SA		SRP Disk**	: dbf or wkl
Telephone #:									72 hr*	1 wk*	2 wk*	3 wk/Std	)					Special Re	quirements:	••
Fax #:									*Prio	r to sar	nple ar	rival, La	ab noti	fication	ı is requ	iired. R	USH S	urchar	ge will ap	ply
Project Name:			Invoice t	0:				}	ANAL	YTIC	AL PA	RAME	TERS	/PRE	SERV	ATIVE	ES		** Circle fo	rmat required
Project Manager: 👌	ay Kathuri	<u> </u>	Address:	3					1 2 3 4 5 6	123	1 2 3 4 5 6	123	1 2 3 4 5 6	123	123	123	1 2 3 4 5 6	1 2 3 4 5 6		Preservatives
Location of Site (STAT)	E): 163 River Rd, 1	Elgewater	15					] /	/	/					/ /			/	1. HCL	3. HNO,
Reference ID#: 203	711 PO#:								730	. /	/	/	/	/	/	/		/	2. NaOH	4. H,SO,
SAMPLE INFOL	RMATION				W - Waste	MPLE MAT SL - Sludge X - Other	A - Aqueous S - Soil		Ammonia										5. MeOH	7 Other
			Sampling			# of	SOL - Solid	<b>1</b> /₹	7 m	/		/	/	/				/_		OOLER TEMP.
Sample ID	Sample Depth (in Feet)	Date	Time	am pm		Containers			1	<del> </del>			(	<del>/</del>	<del>/</del>	<del>/</del>	<del>/</del>	/ Co	mments/A	rea of Concer
3Y-3D		3/8/5	930		sil	2			ļ		<u> </u>			<u> </u>	<u> </u>	<del> </del>	<del> </del>	<u> </u>		•
3Y-5A		11/60	1/ **			+/-	2	<b> </b>	ļ	ļ	ļ		ļ	ļ	ļ	ļ	ļ	<del> </del>		
3Y-5B		1180	1130			Ц_	3	<u> </u>	ļ		<u> </u>	ļ			<b> </b>	ļ	ļ			
3Y-5C		12/0	150			$\perp \downarrow$	4	<u> </u>								<u> </u>				
3Y-5D		3/0	300														<u> </u>			3
34-5R		2/20	510		V	₩ W	6													
				<u> </u>																
																	131			
Please print legibly as	nd fill out completely. Samp	les cannot be j	processed a	and the tu	rnaround ti	me will not s	tart until an	y ambig	uities have	been res	olved.			K	nown Haz	ard: Yes o	160		MD	L Req:
CUSTODY LOG												_		Describe	<b>:</b> :				GWQ:	S or SCC
Sig	nature/Company		Da	ite	Time		Sig	nature	/Compan	Y		]		Con	c. Expecte	d: Low Me	d High			
Relinquished by:	in How		3/9/	جيء	75	Received b	y:	-2	4.	2			Comments							
Relinquished by:	2 / 5	*.p*#p* ,	3/4	05	7,00	Received b	y: //	1	50	ات	and the second	]								
Relinquished by:	A CONTRACTOR		7-7			Received b	y: //		.•	,		]		Lab Cas	e#					,
Relinquished by:						Received b	y:									1	Describ	e	<u> </u>	
Relinquished by:		·				Received b	y:						0	ィノン	2		PAGE:			OF

### PROJECT INFORMATION



Case No. E05-02152 Project	163 RIVER RD. EDGI	EWATER NJ - 20371	1		
Customer EWMA - HQ		P.O. #			
Contact Ajay Kathuria  EMail ajay.kathuria@ewma.com	EMail EDDs	Verbal Due	/9/2005 13:00 //23/2005		
Phone (973) 560-1400 Fax 16	973) 560-0400	-	/30/2005		
Report To		<u>Bill To</u>			
Lanidex Center		Lanidex Center			
100 Misty Lane		100 Misty Lane			
Parsippany, NJ 07054		Parsippany, NJ (	7054		
Attn: Ajay Kathuria		Attn: Ajay Kath	ıria		
Report Format Reduced					
Additional Info State Form	Field Sampling	Conditional VOA			
Lab ID Client Sample ID	<u>Depth Top / Bottom</u>	Sampling Time	<u>Matrix</u>	<u>Unit</u>	# of Containers
02152-001 3Y-3D	n/a	3/8/2005@09:30	Soil	mg/Kg	2
02152-002 3Y-5A	n/a	3/8/2005@11:00	Soil	mg/Kg	2
02152-003 3Y-5B	n/a	3/8/2005@11:30	Soil	mg/Kg	2
02152-004 3Y-5C	n/a	3/8/2005@13:00	Soil	mg/Kg	2
02152-005 3Y-5D	n/a	3/8/2005@15:00	Soil	mg/Kg	2
02152-006 3Y-5R	n/a	3/8/2005@14:00	Soil	mg/Kg	2
Sample # Tests	<u>Status</u>	<b>QA Method</b>			
001 TCL VO+10		3260B			
" TCL BNA+20		3270C			
" PCB	_	3082			
" TCL Pesticides		3081A 5020/7471A			
" TAL Metals		350.2 M			
" Ammonia " Cyanide, Total		9014			
002 TCL VO+10		3260B			
" TCL BNA+20	Run 8	3270C			
" PCB	Run 8	3082			
" TCL Pesticides		3081A			
" TAL Metals		5020/7471A			
" Ammonia		350.2 M			
" Cyanide, Total		9014 3260B			
003 TCL VO+10		3270C			
" TCL BNA+20 " PCB		32700			
" TCL Pesticides		3081A			
" TAL Metals		5020/7471A			
" Ammonia	Run 3	350.2 M			

9014

8260B

8270C

8081A

8082

Run

Rua

Run

Run

Ran

Cyanide, Total

TCL BNA+20

" TCL Pesticides

004 TCL VO+10

**PCB** 

## **SAMPLE RECEIPT VERIFICATION**

CASE NO: E05 02152 CLIENT: EWMA
COOLER TEMPERATURE: 2° - 6°C: ✓ (See Chain of Custody)
COC: COMPLETE / INCOMPLETE  KEY  V = YES/NA  X = NO
✓ Bottles Intact ✓ no-Missing Bottles ✓ no-Extra Bottles
Sufficient Sample Volume  no-headspace/bubbles in VOs  Labels Intact/correct  pH Check (exclude VOs) ¹ Correct bottles/preservative  Sufficient Holding/Prep Time ¹ Sample to be Subcontracted  1 All samples with "Analyze Immediately" holding times will be analyzed by this laboratory past the holding time. This includes but is not limited to the following tests: pH, Temperature, Free Residual Chlorine, Total Residual Chlorine, Dissolved Oxygen, Sulfite.  ADDITIONAL COMMENTS:
SAMPLE(S) VERIFIED BY: INITIAL DATE 3/9/03  CORRECTIVE ACTION REQUIRED: YES SEE BELOW)  NO
CLIENT NOTIFIED: YES Date/ Time: NO
PROJECT CONTACT:
SUBCONTRACTED LAB:  DATE SHIPPED:
ADDITIONAL COMMENTS:
VERIFIED/TAKEN BY: INITIAL DATE

## LABORATORY CUSTODY CHRONICLE

Case No.

E05-02152

Client

EWMA - HQ

Project

163 RIVER RD. EDGEWATER NJ - 203711

riojeci <u>ios kivekio</u>			Preparation		Analysis			
			Date / Time	Analyst	Date / Time	Analyst		
Department: Volatiles								
TCL VO+10 - MeOH Preserved	02152-001	Soil	n/a	n/a	3/15/05	Xing		
N	-002	Soil	n/a	n/a	3/15/05	Xing		
4	-003	Soil	n/a	n/a	3/15/05	Xing		
ď	-004	Soil	n/a	n/a	3/15/05	Xing		
(1	-005	Soil	n/a	n/a	3/15/05	Xing		
*	-006	Soil	n/a	n/a	3/15/05	Xing		
Department: Semivolatiles								
TCL BNA+20	02152-001	Soil	3/14/05	Kou-Liang	3/17/05	JC		
**	-002	Soil	3/14/05	Kou-Liang	3/17/05	JC		
**	-003	Soil	3/14/05	Kou-Liang	3/17/05	JC		
н	-004	Soil	3/14/05	Kou-Liang	3/17/05	JC		
м	-005	Soil	3/14/05	Kou-Liang	3/17/05	JC		
N	-006	Soil	3/14/05	Kou-Liang	3/17/05	1C		
Department: GC			· · · · · · · · · · · · · · · · · · ·					
РСВ	02152-001	Soil	3/10/05	Archimede	3/14/05	Maggie		
11	-002	Soil	3/10/05	Archimede	3/14/05	Maggie		
11	-003	Soil	3/10/05	Archimede	3/14/05	Maggie		
"	-004	Soil	3/10/05	Archimede	3/14/05	Maggie		
11	-005	Soil	3/10/05	Archimede	3/14/05	Maggie		
11	-006	Soil	3/10/05	Archimede	3/14/05	Maggie		
TCL Pesticides	02152-001	Soil	3/10/05	Archimede	3/16/05	Mei		
11	-002	Soil	3/10/05	Archimede	3/16/05	Mei		
**	-003	Soil	3/10/05	Archimede	3/16/05	Mei		
п	-004	Soil	3/10/05	Archimede	3/16/05	Mei		
н	-005	Soil	3/10/05	Archimede	3/16/05	Mei		
К	-006	Soil	3/10/05	Archimede	3/16/05	Mei		
Dan automonte Matala					5. 5. 65			
Department: Metals TAL Metals	02152-001	Soil	3/10/05	Lisa	3/10/05	Helge		
н	-002	Soil	3/10/05	Lisa	3/10/05	Helge		
н	-003	Soil	3/10/05	Lisa	3/10/05	Helge		
ti	-004	Soil	3/10/05	Lisa	3/10/05	Helge		
н	-005	Soil	3/10/05	Lisa	3/10/05	Helge		
11	-006	Soil	3/10/05	Lisa	3/10/05	Helge		
D					5, 10,05			
Department: Wet Chemistry Ammonia	02152-001	Soil	n/a	n/a	3/11/05	Jackie		

## LABORATORY CUSTODY CHRONICLE

Case No.

E05-02152

Client

EWMA - HQ

**Project** 

163 RIVER RD. EDGEWATER NJ - 203711

		Preparation		Analysis		
		Date / Time	Analyst	Date / Time	Analyst	
-002	Soil	n/a	n/a	3/11/05	Jackie	
-003	Soil	n/a	n/a	3/11/05	Jackie	
-004	Soil	n/a	n/a	3/11/05	Jackie	
-005	Soil	n/a	n/a	3/11/05	Jackie	
-006	Soil	n/a	n/a	3/11/05	Jackie	
02152-001	Soil	n/a	n/a	3/18/05	Jackie	
-002	Soil	n/a	n/a	3/18/05	Jackie	
-003	Soil	n/a	n/a	3/18/05	Jackie	
-004	Soil	n/a	n/a	3/18/05	Jackie	
-005	Soil	n/a	n/a	3/18/05	Jackie	
-006	Soil	n/a	n/a	3/18/05	Jackie	
	-003 -004 -005 -006 02152-001 -002 -003 -004 -005	-003 Soil -004 Soil -005 Soil -006 Soil 02152-001 Soil -002 Soil -003 Soil -004 Soil -005 Soil	-002 Soil n/a  -003 Soil n/a  -004 Soil n/a  -005 Soil n/a  -006 Soil n/a  02152-001 Soil n/a  -002 Soil n/a  -003 Soil n/a  -004 Soil n/a  -005 Soil n/a  -005 Soil n/a	-002 Soil n/a n/a  -003 Soil n/a n/a  -004 Soil n/a n/a  -005 Soil n/a n/a  -006 Soil n/a n/a  02152-001 Soil n/a n/a  -002 Soil n/a n/a  -003 Soil n/a n/a  -004 Soil n/a n/a  -005 Soil n/a n/a  -006 Soil n/a n/a  -007 Soil n/a n/a  -007 Soil n/a n/a	-002 Soil n/a n/a 3/11/05  -003 Soil n/a n/a 3/11/05  -004 Soil n/a n/a 3/11/05  -005 Soil n/a n/a 3/11/05  -006 Soil n/a n/a 3/11/05  02152-001 Soil n/a n/a 3/18/05  -002 Soil n/a n/a 3/18/05  -003 Soil n/a n/a 3/18/05  -004 Soil n/a n/a 3/18/05  -005 Soil n/a n/a 3/18/05	



#### MONITORING WELL PURGE RECORD- September 28, 2005

SITE NAME: Location: Job No.:

Three Y Edgewater 203711 3/21/2005 Nick P Overcast 40s

Sampling Date:
Personnel:
Weather Condition:

	Water Quality Parameters								
as <b>编制w</b> 多		Time 24 Hour	PH	Cond.	Turbidity.		Temp.		
Depth to Water (initial)	5.05	11:50	5.45	2.09	620	1.06	11.3		
Depth to Water (final)	5.07	11:55	5.09	2.05	999	0.36	12.1		
Depth of Well (ft)		12:00	5.04	2.04	999	0.49	11.8		
Well Diameter (in)	4.00	12:05	5.02	2.01	897	0.45	11.6		
Screen Length (ft)		12:10	4.99	2.05	640	0.43	11.6		
Casing Type		12:15	4.97	2.06	565	0.42	11.6		
PID (initial)	NA								
PID (final)	NA								
Pump Type	Peristaltic		·						
Tubing Type	Teflon								
Max. Drawdown (ft)	0.02								
Purge Start Time	11:50								
Purge End/Sample Time	12:15								
Purge Rate (GPM)	0.33								
Purge Volume (G)	8.25								
Depth To Product	N/A								
Odor	No	,							

#### **MONITORING WELL PURGE RECORD - August 24, 2005**

SITE NAME: Three Y, LLC
Location: Edgewater, N.J.
Job No.: 203711
Sampling Date: 8/24/2005
Personnel: Carissa J
Weather Condition: Sunny 80s

Well No:	- MW-1	MW-2
Depth of Well (feet): Well Diameter (inches):	22.49 2	19.57 2
PRE-PURGEDATA		
PID/FID (ppm): Depth to Product (feet): Depth to Water (feet): Volume in Well (gal):	nt nt 5.94 2.70	nt nt 3.86 2.56
Product Thickness (feet):		
Purge Start Time: Purge Rate (gal/min): Purge Method:	11:59 0.5 peristaltic	11:15 0.5 peristaltic
pH: Specific Conductivity (µS): Dissolved Oxygen (mg/l): Temperature (°C):	6.41 2.03 2.55 20.7	6.91 2.91 1.77 22.7
POSTPURGE DATA:		
Purge Stop Time: Total Volume Purged (gal): Depth to Water (feet):	12:15 <b>8.09</b> 6.19	11:31 7.68 4.19
pH: Specific Conductivity (μS): Dissolved Oxygen (mg/l): Temperature (°C):	5.7 2.29 2.33 18.4	6.88 2.88 1.88 22.1
PRE-SAMPLING DATA:		3.7.°
Depth To Water (feet):	6.10	4.03
POST-SAMPLING DATA:		
Time of Sampling: Sampling Method:	12:23 bailer	11:37 bailer
pH: Specific Conductivity (μS): Dissolved Oxygen (mg/l): Temperature (°C):	5.75 1.94 1.99 18.5	6.87 2.840 1.11 20.8
Odor: Color	no no	no no

#### **COMMENTS:**

ND = Not Detected

Bailer = The sampling device used was a disposable, dedicated, polyethylene bailer.

NT = Not Tested

NS - Not Sampled



#### ANALYTICAL DATA REPORT

Environmental Waste Management Associates, LLC.

Lanidex Center

100 Misty Lane

Parsippany, NJ 07054

Project Name: THREE Y - 203711 IAL Case Number: E05-02623

These data have been reviewed and accepted by:

Michael H. Leften, Ph.D. Laboratory Director

## **Sample Summary**

Case No.

E05-02623

Project Name THREE Y - 203711

Customer

EWMA - HQ

Received On

3/21/2005@17:30

Lab ID	Client Sample ID	Depth Top / Bottom	Sampling Time	<u>Matrix</u>	# of Cont.
02623-001	MW-1A	n/a	3/21/2005@12:30	Aqueous	12
02623-002		n/a	3/21/2005@12:45	Aqueous	9
02623-003		n/a	3/21/2005@09:30	Aqueous	2

Page 1 of 1 Printed on: 4/1/2005

#### **MATRIX QUALIFIERS**

- A Indicates the sample is an Aqueous matrix.
- O Indicates the sample is an Oil matrix.
- **S** Indicates the sample is a <u>S</u>oil, <u>S</u>ludge or <u>S</u>ediment matrix.
- X Indicates the sample is an Other matrix as indicated by Client Chain of Custody.

#### **DATA QUALIFIERS**

- **B** Indicates the analyte was found in the <u>B</u>lank and in the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of the analyte.
- **C** Common Laboratory Contaminant.
- **D** The compound was reported from the <u>D</u>iluted analysis.
- D.F. Dilution Factor.
- **E** <u>E</u>stimated concentration, reported results are outside the calibrated range of the instrument.
- J Indicates an estimated value. The compound was detected at a value below the method detection limit but greater than zero. For GC/MS procedures, the mass spectral data meets the criteria required to identify the target compound.
- **MDL** Method Detection Limit.
- MI Indicates compound concentration could not be determined due to <u>Matrix Interferences</u>.
- NA Not Applicable.
- ND Indicates the compound was analyzed for but Not Detected at the MDL.

#### **REPORT QUALIFIERS**

All solid sample analyses are reported on a dry weight basis.

All solid sample values are corrected for original sample size and percent solids.

#### **CONFORMANCE / NONCONFORMANCE SUMMARY**

Integrated Analytical Laboratories, LLC. received three (3) aqueous sample(s) from Environmental Waste Management Associates, LLC. (Project: THREE Y - 203711) on March 17, 2005 for the analysis of:

- (1) PP VOA
- (2) TCL VO+10
- (2) TCL BNA+20
- (2) PCB
- (2) TCL Pesticides
- (2) TAL Metals
- (2) Ammonia
- (2) Cyanide, Total

A review of the QA/QC measures for the analysis of the sample(s) contained in this report has been performed by:

Mdyngryfu Reviewed by 4 4 05 Date

## LABORATORY DELIVERABLES CHECK LIST

Lab Case Number: E05-02623

		Cneck if Complete
1.	Cover Page, Title Page listing Lab Certification #, facility name & address and date of report preparation.	✓
2.	Table of Contents.	<b>✓</b>
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds.	<u>√</u>
4.	Summary Table cross-referencing Field ID's vs. Lab ID's.	<b>✓</b>
5.	Document bound, paginated and legible.	<b>√</b>
6.	Chain of Custody.	<b>√</b>
7.	Methodology Summary.	<b>√</b>
8.	Laboratory Chronicle and Holding Time Check.	<b>√</b>
9.	Results submitted on a dry weight basis (if applicable).	
10.	Method Detection Limits.	
11.	Lab certified by NJDEP for parameters or appropriate category of	
	parameters or a member of the USEPA CLP.	,
12.	NonConformance Summary.	
	OC Reviewed by U	4 05 ate

# INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC/MS VOLATILE ANALYSIS

	Lab Case Number: E05 - 2UX>	Ma	
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).	<u>No</u>	<u>Ye:</u>
2.	GC/MS Tuning Specifications: a. BFB Passed	<del></del>	
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series, 12 hours for 8000 series and 8 hours for 500 series.	•	
4.	GC/MS Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours before sample analysis for 600 series, 12 hours for 8000 series		
<b>5</b> .	GC/MS Calibration Requirements: a. Calibration Check Compounds	<del> </del>	PA
	b. System Performance Check Compounds		NA
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		
7.	Surrogate Recoveries Meet Criteria (If not met, list those compounds and their recoveries which fall outside the acceptable range)	<del>-</del> .	_V
	If not met, were the calculations checked and the results qualified as "estimated"?	<del></del>	_\nu
8.	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range)		NA
9.	Internal Standard Area/Retention Time Shift meet criteria		
10.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:		
11.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:		
12.	Sample Dilution Performed  High Nontarget High Nontarget Matrix Interference Other  Compounds Compounds		
13.	Comments:		
	Organics Manager Date		

#### INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC/MS SEMIVOLATILE ANALYSIS

	Lab Case Number: E05 - 02623		
1	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).	<u>No</u>	Yes
	GC/MS Tuning Specifications:		<b>√</b>
3.	a. DFTPP Passed GC/MS Tuning Frequency - Performed every 24 hours for 600 series,		<b>√</b> `
	12 hours for 8000 series.	•	
4.	GC/MS Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours before sample analysis for 600 series.		
5.	GC/MS Calibration Requirements:  a. Calibration Check Compounds  b. System Performance Check Compounds		·
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:  a. B/N Fraction  b. Acid Fraction		
7.	Surrogate Recoveries Meet Criteria (If not met, list those compounds and their recoveries which fall outside the acceptable range)  a. B/N Fraction  b. Acid Fraction  If not met, were the calculations checked and the results qualified as "estimated"?		√ na
8.	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range)  a. B/N Fraction  b. Acid Fraction		<b>√</b>
9.	Internal Standard Area/Retention Time Shift meet criteria	<del></del>	✓
10.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:		✓
11.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:		<b>✓</b>
12.	Sample Dilution Performed		
	High Nontarget High Nontarget Matrix Interference Other Compounds Compounds	7	
13.	Comments:		
	03/25/05		
	Organics Manager Date		

#### INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC ANALYSIS - PCB'S

Lab Case Number:

E05- 02423

		<u>No</u>	_Yes
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).	-	
2.	Standards Summary submitted.		
3.	Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 12 hrs of the sample analysis.		
4.	Blank Contamination - If yes, list compounds and concentrations in each blank:		
<b>5</b> .	Surrogate Recoveries meet criteria (if applicable).  If not met, list those compounds and their recoveries which fall outside the acceptable range:		·
6.	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range) acceptable range:		
7.	Retention Time Shift Meet Criteria (if applicable).		
8.	Extraction Holding Time Met.		/
	If not met, list number of days exceeded for each sample:		
9.	Analysis Holding Time Met.  If not met, list number of days exceeded for each sample:		_/_
	Comments:		
	9 manager 3 25 / U5 Date		

# INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC ANALYSIS - PESTICIDES

	Lab Case Number: E05 - 0262		
		No_	<u> </u>
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).		
2.	Standards Summary submitted.		
3.	Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 12 hrs of the sample analysis.		
<b>4</b> .	Blank Contamination - If yes, list compounds and concentrations in each blank:		
5.	Surrogate Recoveries meet criteria (if applicable).  If not met, list those compounds and their recoveries which fall outside the acceptable range:		
6.	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range) acceptable range:		<u>_v</u>
7.	Retention Time Shift Meet Criteria (if applicable).		
8.	Extraction Holding Time Met.		V
	If not met, list number of days exceeded for each sample:	_	
9.	Analysis Holding Time Met.		
	If not met, list number of days exceeded for each sample:	-	
	Comments:		
	03/28/05	_	
	Organic Manager Date		

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#### INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY METAL ANALYSIS

Lab Case Number: E05-02623

		No	<u>Yes</u>
1.	Calibration Summary Meet Criteria.		✓
2.	ICP Interference Check Sample Results Meets Criteria (if applicable)		<b>✓</b>
3.	Serial Dilution Summary Submitted (if applicable) / Meets Criteria		<b>✓</b>
4.	Internal Standards Meet Criteria (if applicable)		<u> </u>
5.	Laboratory Control Sample Summary Submitted (if applicable) / Meets Criteria		_
6.	Blank Contamination: If yes, list compounds and concentrations in each blank:		·
7.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria. (If not, list those compounds and their recoveries which fall outside the acceptable range).		<u> </u>
8.	Extraction Holding Time Met. If not, list number of days exceeded for each sample:		
9.	Analysis Holding Time Met. If not, list number of days exceeded for each	<del> </del>	<u> </u>
	sample:		
	Additional Comments:  Sample(s): 02623-001 used for aqueous metals analyses contained varying levels of sediment. Precautions were taken to use an aqueous representative of the sample. However, our experience has demonstrated that samples of this nature are very difficult duplicate because the metals numbers are basically tied into the level of sediment pretented the original sample. Additionally, as the remainder of the sample is stored under acidic conditions, some of the metals may continue to leach out into the water making any reproduction of the original number impossible. The rough amount of sediment present the samples is as follows:	esent in	
	02622 004. 0 20/		

02623-001: 0.2%

H. Falek payennes

Inorganic Manager

March 24, 2005

Date

#### **SUMMARY REPORT**

Client: Environmental Waste Management Associates, LLC.

Project: THREE Y - 203711 Lab Case No.: E05-02623

	ase No.:					
Lab ID:	ı	3-001	i	23-002	•	3-003
Client ID:	1	/-1A	]	FB	T	<b>B</b>
Matrix:		eous	-	ueous		eous
Sampled Date	3/2	1/05	3/2	21/05	i .	1/05
PARAMETER(Units)	Conc C	Q MDL	Conc	Q MDL	Conc (	Q MDL
Volatiles (µg/L-ppb)			i			1
Acetone	9.01	2.57	ND	2.57	~	~
Methyl-t-butyl ether(MTBE)	0.468	0.370	ND	0.370	~	~
Benzene	1.60	0.470	ND	0.470	~	~
Toluene	0.698	0.390	ND	0.390	~	~
Ethylbenzene	0.589	0.400	ND	0.400	~	~
Total Xylenes	1.10	1.01	ND	1.01	~	~
Cyclohexane	2.07	0.420	ND	0.420	~	~
Methylcyclohexane	0.917	0.320	ND	0.320	~	~
TOTAL VO's:	16.5		ND	1	~	;
TOTAL TIC's:	206	;	ND		~	~
TOTAL VO's & TIC's:	223		ND	ļ	~	~
Volatiles (µg/L-ppb)				:		
TOTAL VO's:	~		~	1	ND	
Semivolatiles - BNA (µg/L-ppb)	,					-
Naphthalene	65.5	0.110	ND	0.110	~	~
2-Methylnaphthalene	10.6	0.140	ND	0.140	~	~
1-1'-Biphenyl	2.57	0.120	ND	0.120	~	~
Acenaphthylene	0.373	0.180	ND	0.180	~	~
Acenaphthene	41.5	0.170	ND	0.170	~	~
Dibenzofuran	15.1	0.120	ND	0.120	~	~
Fluorene	20.9	0.180	ND	0.180	~	~
Phenanthrene	41.7	0.110	ND	0.110	~	~
Anthracene	5.67	0.140	ND	0.140	~	~
Carbazole	21.6	0.170	ND	0.170	~	~
Fluoranthene	6.19	0.190	ND	0.190	~	~
Pyrene	4.58	0.140	ND	0.140	~	~
Butylbenzylphthalate	0.267 J	0.310	ND	0.310	~	~
Benzo[a]anthracene	0.491	0.150	ND	0.150	~	~
Chrysene	0.477	0.140	ND	0.140	~	~
Benzo[a]pyrene	0.256	0.200	ND	0.200	~	~
TOTAL BNA'S:	238 J		ND			
TOTAL TIC's:	16.3		ND		~	~
TOTAL BNA'S & TIC's:	254 Ј		ND		~	~
PCB's (µg/L-ppb)						
Aroclor-1016	ND	0.200	ND	0.200	~	~
Aroclor-1221	ND	0.200	ND	0.200	~	~
Aroclor-1232	ND	0.200	ND	0.200	~	~
Aroclor-1242	ND	0.200	ND	0.200	~	~
Aroclor-1248	ND	0.200	ND	0.200	~	~
Aroclor-1254	ND	0.200	ND	0.200	~	~
Aroclor-1260	ND	0.200	ND	0.200	~	~

 $[\]sim$  = Sample not analyzed for

ND = Analyzed for but Not Detected at the MDL

J = The concentration was detected at a value below the MDL

All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.

#### **SUMMARY REPORT**

Client: Environmental Waste Management Associates, LLC.

Project: THREE Y - 203711 Lab Case No.: E05-02623

Lab ID:   02623-001   02623-002   02623-002   TB
Matrix: Sampled Date   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3/21/05   3
Sampled Date   3/21/05   3/21/05   3/21/05   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q   MDL   Conc   Q
Parameter (Units)   Conc Q MDL   Conc Q MDL   Conc Q MDL
Pesticides (µg/L-ppb)         ND         0.010         ND         0.010         ~           beta-BHC         ND         0.010         ND         0.010         ~           gamma-BHC         ND         0.010         ND         0.010         ~           delta-BHC         ND         0.010         ND         0.010         ~           Heptachlor         ND         0.010         ND         0.010         ~           Aldrin         ND         0.010         ND         0.010         ~           Heptachlor epoxide         ND         0.010         ND         0.010         ~           Endosulfan I         ND         0.010         ND         0.010         ~           Endrin         ND         0.010         ND         0.010         ~           Endrin         ND         0.010         ND         0.010         ~           Endrin aldehyde         ND         0.010         ND         0.010         ~           Endrin ketone         ND         0.010         ND         0.010         ~           Endrin ketone         ND         0.010         ND         0.010         ~           Endrin ketone
Pesticides (µg/L-ppb)         ND         0.010         ND         0.010         ~           beta-BHC         ND         0.010         ND         0.010         ~           gamma-BHC         ND         0.010         ND         0.010         ~           delta-BHC         ND         0.010         ND         0.010         ~           Heptachlor         ND         0.010         ND         0.010         ~           Aldrin         ND         0.010         ND         0.010         ~           Heptachlor epoxide         ND         0.010         ND         0.010         ~           Endosulfan I         ND         0.010         ND         0.010         ~           Endrin         ND         0.010         ND         0.010         ~           Endrin         ND         0.010         ND         0.010         ~           Endrin aldehyde         ND         0.010         ND         0.010         ~           Endrin ketone         ND         0.010         ND         0.010         ~           Endrin ketone         ND         0.010         ND         0.010         ~           Endrin ketone
alpha-BHC         ND         0.010         ND         0.010         ~           beta-BHC         ND         0.010         ND         0.010         ~           gamma-BHC         ND         0.010         ND         0.010         ~           delta-BHC         ND         0.010         ND         0.010         ~           Heptachlor         ND         0.010         ND         0.010         ~           Heptachlor epoxide         ND         0.010         ND         0.010         ~           Heptachlor epoxide         ND         0.010         ND         0.010         ~           Heptachlor epoxide         ND         0.010         ND         0.010         ~           Heptachlor epoxide         ND         0.010         ND         0.010         ~           Heptachlor epoxide         ND         0.010         ND         0.010         ~           Endosulfan I         ND         0.010         ND         0.010         ~           Heptachlor epoxide         ND         0.010         ND         0.010         ~           Heptachlor epoxide         ND         0.010         ND         0.010         ~
beta-BHC         ND         0.010         ND         0.010         ~           gamma-BHC         ND         0.010         ND         0.010         ~           delta-BHC         ND         0.010         ND         0.010         ~           Heptachlor         ND         0.010         ND         0.010         ~           Aldrin         ND         0.010         ND         0.010         ~           Heptachlor epoxide         ND         0.010         ND         0.010         ~           Endosulfan I         ND         0.010         ND         0.010         ~           Endrin         ND         0.010         ND         0.010         ~           Endosulfan II         ND         0.010         ND         0.010         ~           Endrin aldehyde         ND         0.010         ND         0.010         ~           Endosulfan sulfate         ND         0.010         ND         0.010         ~           Endrin ketone         ND         0.010         ND         0.010         ~           Endrin ketone         ND         0.010         ND         0.010         ~           Endrin ketone
gamma-BHC         ND         0.010         ND         0.010         ~           delta-BHC         ND         0.010         ND         0.010         ~           Heptachlor         ND         0.010         ND         0.010         ~           Aldrin         ND         0.010         ND         0.010         ~           Heptachlor epoxide         ND         0.010         ND         0.010         ~           Endosulfan I         ND         0.010         ND         0.010         ~           Endrin         ND         0.010         ND         0.010         ~           Endrin         ND         0.010         ND         0.010         ~           Endosulfan II         ND         0.010         ND         0.010         ~           4,4'-DDD         ND         0.010         ND         0.010         ~           Endrin aldehyde         ND         0.010         ND         0.010         ~           Endrin ketone         ND         0.010         ND         0.010         ~           Endrin ketone         ND         0.010         ND         0.010         ~           Methoxychlor         ND
delta-BHC         ND         0.010         ND         0.010         ~           Heptachlor         ND         0.010         ND         0.010         ~           Aldrin         ND         0.010         ND         0.010         ~           Heptachlor epoxide         ND         0.010         ND         0.010         ~           Endosulfan I         ND         0.010         ND         0.010         ~           Endrin         ND         0.010         ND         0.010         ~           Endrin         ND         0.010         ND         0.010         ~           Endosulfan II         ND         0.010         ND         0.010         ~           4,4'-DDD         ND         0.010         ND         0.010         ~           Endrin aldehyde         ND         0.010         ND         0.010         ~           Endosulfan sulfate         ND         0.010         ND         0.010         ~           4,4'-DDT         ND         0.010         ND         0.010         ~           Endrin ketone         ND         0.010         ND         0.010         ~           Methoxychlor         ND
Heptachlor
Aldrin         ND         0.010         ND         0.010         ~           Heptachlor epoxide         ND         0.010         ND         0.010         ~           Endosulfan I         ND         0.010         ND         0.010         ~           4,4'-DDE         ND         0.010         ND         0.010         ~           Dieldrin         ND         0.010         ND         0.010         ~           Endrin         ND         0.010         ND         0.010         ~           Endosulfan II         ND         0.010         ND         0.010         ~           4,4'-DDD         ND         0.010         ND         0.010         ~           Endrin aldehyde         ND         0.010         ND         0.010         ~           Endosulfan sulfate         ND         0.010         ND         0.010         ~           4,4'-DDT         ND         0.010         ND         0.010         ~           Endrin ketone         ND         0.010         ND         0.010         ~           Methoxychlor         ND         0.010         ND         0.010         ~           alpha-Chlordane <td< td=""></td<>
Heptachlor epoxide
Endosulfan I         ND         0.010         ND         0.010         ~           4,4'-DDE         ND         0.010         ND         0.010         ~           Dieldrin         ND         0.010         ND         0.010         ~           Endrin         ND         0.010         ND         0.010         ~           Endosulfan II         ND         0.010         ND         0.010         ~           4,4'-DDD         ND         0.010         ND         0.010         ~           Endrin aldehyde         ND         0.010         ND         0.010         ~           Endosulfan sulfate         ND         0.010         ND         0.010         ~           4,4'-DDT         ND         0.010         ND         0.010         ~           Endrin ketone         ND         0.010         ND         0.010         ~           Methoxychlor         ND         0.010         ND         0.010         ~           alpha-Chlordane         ND         0.010         ND         0.010         ~           gamma-Chlordane         ND         0.010         ND         0.010         ~
4,4'-DDE       ND       0.010       ND       0.010       ~         Dieldrin       ND       0.010       ND       0.010       ~         Endrin       ND       0.010       ND       0.010       ~         Endosulfan II       ND       0.010       ND       0.010       ~         4,4'-DDD       ND       0.010       ND       0.010       ~         Endrin aldehyde       ND       0.010       ND       0.010       ~         Endosulfan sulfate       ND       0.010       ND       0.010       ~         4,4'-DDT       ND       0.010       ND       0.010       ~         Endrin ketone       ND       0.010       ND       0.010       ~         Methoxychlor       ND       0.010       ND       0.010       ~         alpha-Chlordane       ND       0.010       ND       0.010       ~         gamma-Chlordane       ND       0.010       ND       0.010       ~
Dieldrin         ND         0.010         ND         0.010         ~           Endrin         ND         0.010         ND         0.010         ~           Endosulfan II         ND         0.010         ND         0.010         ~           4,4'-DDD         ND         0.010         ND         0.010         ~           Endrin aldehyde         ND         0.010         ND         0.010         ~           Endosulfan sulfate         ND         0.010         ND         0.010         ~           4,4'-DDT         ND         0.010         ND         0.010         ~           Endrin ketone         ND         0.010         ND         0.010         ~           Methoxychlor         ND         0.010         ND         0.010         ~           alpha-Chlordane         ND         0.010         ND         0.010         ~           gamma-Chlordane         ND         0.010         ND         0.010         ~
Endrin         ND         0.010         ND         0.010         ~           Endosulfan II         ND         0.010         ND         0.010         ~           4,4'-DDD         ND         0.010         ND         0.010         ~           Endrin aldehyde         ND         0.010         ND         0.010         ~           Endosulfan sulfate         ND         0.010         ND         0.010         ~           4,4'-DDT         ND         0.010         ND         0.010         ~           Endrin ketone         ND         0.010         ND         0.010         ~           Methoxychlor         ND         0.010         ND         0.010         ~           alpha-Chlordane         ND         0.010         ND         0.010         ~           gamma-Chlordane         ND         0.010         ND         0.010         ~
Endosulfan II         ND         0.010         ND         0.010         ~           4,4'-DDD         ND         0.010         ND         0.010         ~           Endrin aldehyde         ND         0.010         ND         0.010         ~           Endosulfan sulfate         ND         0.010         ND         0.010         ~           4,4'-DDT         ND         0.010         ND         0.010         ~           Endrin ketone         ND         0.010         ND         0.010         ~           Methoxychlor         ND         0.010         ND         0.010         ~           alpha-Chlordane         ND         0.010         ND         0.010         ~           gamma-Chlordane         ND         0.010         ND         0.010         ~
4,4'-DDD       ND       0.010       ND       0.010       ~         Endrin aldehyde       ND       0.010       ND       0.010       ~         Endosulfan sulfate       ND       0.010       ND       0.010       ~         4,4'-DDT       ND       0.010       ND       0.010       ~         Endrin ketone       ND       0.010       ND       0.010       ~         Methoxychlor       ND       0.010       ND       0.010       ~         alpha-Chlordane       ND       0.010       ND       0.010       ~         gamma-Chlordane       ND       0.010       ND       0.010       ~
Endrin aldehyde         ND         0.010         ND         0.010         ~           Endosulfan sulfate         ND         0.010         ND         0.010         ~           4,4'-DDT         ND         0.010         ND         0.010         ~           Endrin ketone         ND         0.010         ND         0.010         ~           Methoxychlor         ND         0.010         ND         0.010         ~           alpha-Chlordane         ND         0.010         ND         0.010         ~           gamma-Chlordane         ND         0.010         ND         0.010         ~
Endosulfan sulfate
4,4'-DDT       ND       0.010       ND       0.010       ~         Endrin ketone       ND       0.010       ND       0.010       ~         Methoxychlor       ND       0.010       ND       0.010       ~         alpha-Chlordane       ND       0.010       ND       0.010       ~         gamma-Chlordane       ND       0.010       ND       0.010       ~
Endrin ketone
Methoxychlor         ND         0.010         ND         0.010         ~           alpha-Chlordane         ND         0.010         ND         0.010         ~           gamma-Chlordane         ND         0.010         ND         0.010         ~
alpha-Chlordane ND 0.010 ND 0.010 ~ gamma-Chlordane ND 0.010 ND 0.010 ~
gamma-Chlordane ND 0.010 ND 0.010 ~
m 1
<u>Toxaphene</u> ND 0.075 ND 0.075 ~
Metals (µg/L-ppb)
Aluminum 280 40.0 ND 40.0 ~
Antimony ND 4.00 ND 4.00 ~
Arsenic 3 (5.86) 4.00 ND 4.00 ~
Barium ND 40.0 ND 40.0 ~
Beryllium ND 2.00 ND 2.00 ~
Cadmium 1.44 1.00 ND 1.00 ~
Calcium 195000 200 ND 200 ~
Chromium
Cobalt ND 8.00 ND 8.00 ~
Copper ND 8.00 ND 8.00 ~
Iron 4080 100 ND 100 ~
Lead ND 2.00 ND 2.00 ~
Magnesium 47100 200 ND 200 ~
Manganese 5580 4.00 ND 4.00 ~
Mercury ND 0.500 ND 0.500 ~
Nickel ND 4.00 ND 4.00 ~
Potassium 15400 200 ND 200 ~
Selenium ND 8.00 ND 8.00 ~
Silver ND 2.00 ND 2.00 ~
Sodium 166000 400 ND 400 ~
Thallium ND 0.400 ND 0.400 ~
Vanadium ND 8.00 ND 8.00 ~
Zinc 41.1 8.00 ND 8.00 ~
General Analytical
Cyanide, Total(µg/L-ppb) ND 20.0 ND 20.0 ~
Ammonia(μg/L-ppb) 3000 3000 200 ND 200 ~

^{~ =} Sample not analyzed for

ND = Analyzed for but Not Detected at the MDL

Phone # (973) 361-4252 Fax # (973) 989-5288

## INTEGRATED ANALYTICAL LABORATORIES CHAIN OF CUSTODY

273 Franklin Rd Randolph, NJ 07869

CLIENT & PROJECT	REPORTING & BIL	LING	Turnaround Time (st	arts the following day if	samples rec'd at lab > 5PM	)
Company EWMA-P	Fax to:		Conditional / TPHC		Results needed by:	Report Format
	Fax #:		24 hr* 48 hr 72 hr	1 wk NA		Results Only
Address:	EMail to:		Verbal/Fax			Reduced
	Report to:		24 hr* 48 hr* 72 hr*	1 wk* 2 wk/\$td	SH	Regulatory
	Address:		Hard Copy		24	SRP Disk**: dbf or wk1
Telephone #:			72 hr* 1 wk* 2 wk*	3 wk/Std	াংসাল	Special Requirements:
Fax #:			*Prior to sample ar	rival, Lab notificatio	n is required, RUSH Su	rcharge will apply
Project Name: Three Y	Invoice to:		ANALYTICAL PA	RAMETERS / PR	ESERVATIVES	** Circle format required
Project Manager: Any Kathucia	Address:		1 2 3 1 2 3 1 2 3 4 5 6 4 5 6 4 5 6			1 2 3 4 5 6 Preservatives
Location of Site (STATE).			1 -91	/ / _0/	1. / / /	(fix) LHNO
Reference ID#: 2037/1 PO#: L8745			1, 9 3, 3	.e/ # 4/	′	2. NaOH 4. H ₂ SO
CALCRY E INFORMATION	W - Waste	IPLE MATRIX SL - Sludge A - Aqueous	Ammana Tale Metals	The Parties	/ / /	5. MeOH 6. Other
SAMPLE INFORMATION	GW - Groun			797	8/ m//	COOLER TEMP.
Sample ID Sample Depth (in Feet) Date	Sampling # Time am pm Matrix	# of Containers Lab ID		可用用。	a	Comments/Area of Concern
MW-IA 3lai	13130 X GW	12 1	XXXX	XXX		
FB	12:48 X A		XXXX	XXX	^	
TO	9130 X A	a 7			X	
Please print legibly and fill out completely. Samples cannot be p	processed and the turnaround tin	ne will not start until any on	mbiguities have been resolved		Known Hazard: Yes or No	MDI D
CUSTODY LOG		and the same and all		_		MDL Req: GWQS or SCC
Signature/Company						0 11 QB 01 BCC
Relinquished by:	3/21/05 1640					
Relinquished by:	3621/05 5:30	Received by:	- (TA:1)	Comments:		
Relinquished by:	201/102 2 . 70	Received by:				
Relinquished by:		Received by:		Lab Ca		
Relinquished by:		Received by:		1 26	Describe PAGE:	\ or
1 - D COBIES WHITE & VEH LOW- CHENT CORV. BINK		1		<u>ا ا ا</u>	I AOE:	\ Or

### PROJECT INFORMATION



Case No. E05-02623 Project	THREE Y - 203711				
Customer EWMA - HQ		P.O. # L8795		······	
Contact Ajay Kathuria		Received 3/2	1/2005 17:30		
EMail ajay.kathuria@ewma.com	EMail EDDs	Verbal Due 4/5	/2005		
Phone (973) 560-1400 Fax 1(97	73) 560-0400	Report Due 4/1:	2/2005		
Report To	•	Bill To			
Lanidex Center		Lanidex Center			
		100 Misty Lane			
100 Misty Lane		•			
Parsippany, NJ 07054		Parsippany, NJ 070	54		
Attn: Ajay Kathuria		Attn: Ajay Kathuria	ι		
Report Format Reduced					
Additional Info State Form	Field Sampling	Conditional VOA			
02623-001 MW-1A 02623-002 FB 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	n/a n/a	3/21/2005@12:30 3/21/2005@12:45 3/21/2005@09:30	Aqueous Aqueous Aqueous	μg/L μg/L μg/L	12 9 2
Sample # Tests	Status QA	<u>Method</u>	•		
001 TCL VO+10	Run 624				
" TCL BNA+20	Run 625	A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA			
" PCB	Run 8082	2			
" TCL Pesticides	Rûn - 808				
" TAL Metals		)/7471A			
" Ammonia	Run 350.				
" Cyanide, Total	Run 335.				
002 TCL VO+10	Run 624				
" TCL BNA+20	Run 625				
" PCB	'Run 8082				
" TCL Pesticides	Run 8081				
" TAL Metals	Run 6020	V7471A			
" Ammonia " Cyanide, Total	Run 350.	t Zironingan		•	

Run

624

003 PP VOA

## **SAMPLE RECEIPT VERIFICATION**

CASE NO: <b>E05 0262</b>	3 CLIENT: ROM
COOLER TEMPERATURE: 2° - 0	6°C: ( See Chain of Custody)  Comments
COC: COMPLETE / INCOMPL	
KEY  ✓ = YES/NA  × = NO	
<ul><li>✓ Bottles Intact</li><li>✓ no-Missing Bottles</li><li>✓ no-Extra Bottles</li></ul>	
✓ Sufficient Sample Volume ✓ no-headspace/bubbles in ✓ Labels intact/correct ✓ pH Check (exclude VOs)¹ ✓ Correct bottles/preservativ ✓ Sufficient Holding/Prep Tir  Sample to be Subcontract	vos
•	mes will be analyzed by this laboratory past the holding time. This includes but is not limited to lal Chlorine, Total Residual Chlorine, Dissolved Oxygen, Sulfite.
SAMPLE(S) VERIFIED BY:	DATE 3/21/02
CORRECTIVE ACTION REQU	RED: YES
CLIENT NOTIFIED:	YES Date/ Time: NO
PROJECT CONTACT:	
SUBCONTRACTED LAB:  DATE SHIPPED:	
ADDITIONAL COMMENTS:	
VERIFIED/TAKEN BY:	IITIAL JB DATE 3.22.05

REV 02/05 171

## LABORATORY CUSTODY CHRONICLE

Case No.

E05-02623

Client

**EWMA - HQ** 

**Project** 

THREE Y - 203711

			Preparation		Analysis	
			Date / Time	Analyst	Date / Time	Analyst
Department: Volatiles						
PP VOA	02623-003	Aqueous	n/a	n/a	3/28/05	Barbara
TCL VO+10	-001	Aqueous	n/a	n/a	3/28/05	Barbara
4	-002	Aqueous	n/a	n/a	3/28/05	Barbara
Department: Semivolatiles						
TCL BNA+20	02623-001	Aqueous	3/23/05	Kou-Liang	3/24/05	JC
4	-002	Aqueous	3/23/05	Kou-Liang	3/24/05	JC
Department: GC						
PCB	02623-001	Aqueous	3/24/05	Archimede	3/25/05	Maggie
4	-002	Aqueous	3/24/05	Archimede	3/25/05	Maggie
TCL Pesticides	02623-001	Aqueous	3/24/05	Archimede	3/25/05	Mei
н	-002	Aqueous	3/24/05	Archimede	3/25/05	Mei
Department: Metals						
TAL Metals	02623-001	Aqueous	3/22/05	Lisa	3/24/05	Helge
*	-002	Aqueous	3/22/05	Lisa	3/24/05	Helge
Department: Wet Chemistry						
Ammonia	02623-001	Aqueous	n/a	n/a	3/31/05	Jackie
4	-002	Aqueous	n/a	n/a	3/31/05	Jackie
Cyanide, Total	02623-001	Aqueous	n/a	n/a	3/28/05	Jackie
ti	-002	Aqueous	n/a	n/a	3/28/05	Jackie





## ANALYTICAL DATA REPORT REVISED

Environmental Waste Management Associates, LLC.

Lanidex Center
100 Misty Lane
Parsippany, NJ 07054

Project Name: 163 RIVER RD-203711 IAL Case Number: E05-08185

These data have been reviewed and accepted by:

Michael H. Leftin, Ph.D. Laboratory Director

## **Sample Summary**

Case No.

E05-08185

Project Name 163 RIVER RD-203711

Customer

EWMA - HQ

Received On

8/5/2005@09:30

Lab (D	Client Sample ID	Depth Top / Bottom	Sampling Time	<u>Matrix</u>	# of Cont.
08185-001	3Y-B14	0 / 0.5	8/4/2005@09:00	Soil	1
08185-002		17 / 17.5	8/4/2005@09:15	Soil	2
08185-003		4 / 4.5	8/4/2005@09:45	Soil	2
08185-004		2 / 2.5	8/4/2005@10:15	Soil	2
08185-005		6.5 / 7	8/4/2005@16:00	Soil	2
08185-006		2 / 2.5	8/4/2005@10:20	Soil	2
08185-007		2 / 2.5	8/4/2005@10:45	Soil	2
08185-008		2 / 2.5	8/4/2005@11:00	Soil	2
08185-009		6.5 / 7	8/4/2005@13:00	Soil	2
08185-010		6.5 / 7	8/4/2005@14:00	Soil	2

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^{*} Methodology is included in the IAL Project Information Page

#### **MATRIX QUALIFIERS**

- A Indicates the sample is an Aqueous matrix.
- O Indicates the sample is an Oil matrix.
- **S** Indicates the sample is a <u>S</u>oil, <u>S</u>ludge or <u>S</u>ediment matrix.
- X Indicates the sample is an Other matrix as indicated by Client Chain of Custody.

#### **DATA QUALIFIERS**

- **B** Indicates the analyte was found in the <u>B</u>lank and in the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of the analyte.
- **C** Common Laboratory Contaminant.
- **D** The compound was reported from the <u>D</u>iluted analysis.
- D.F. Dilution Factor.
- **E** <u>E</u>stimated concentration, reported results are outside the calibrated range of the instrument.
- J Indicates an estimated value. The compound was detected at a value below the method detection limit but greater than zero. For GC/MS procedures, the mass spectral data meets the criteria required to identify the target compound.
- MDL Method Detection Limit.
- MI Indicates compound concentration could not be determined due to Matrix Interferences.
- **NA** <u>N</u>ot <u>Applicable</u>.
- ND Indicates the compound was analyzed for but Not Detected at the MDL.

#### **REPORT QUALIFIERS**

All solid sample analyses are reported on a dry weight basis.

All solid sample values are corrected for original sample size and percent solids.

#### **REVISED**

#### **CONFORMANCE / NONCONFORMANCE SUMMARY**

Integrated Analytical Laboratories, LLC. received ten (10) soil sample(s) from Environmental Waste Management Associates, LLC. (Project: 163 RIVER RD-203711) on August 5, 2005 for the analysis of:

- (9) TCL VOA + 10
- (1) TCL BN + 15
- (10) Ammonia (NH3)

A review of the QA/QC measures for the analysis of the sample(s) contained in this report has been performed by:

Reviewed by

### LABORATORY DELIVERABLES CHECK LIST

Lab Case Number: E05-08185 REVISED

		Check If Complete
1.	Cover Page, Title Page listing Lab Certification #, facility name & address and date of report preparation.	<b>✓</b>
2.	Table of Contents.	_
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds.	✓
4.	Summary Table cross-referencing Field ID's vs. Lab ID's.	<b>✓</b>
5.	Document bound, paginated and legible.	<b>✓</b>
6.	Chain of Custody.	✓
7.	Methodology Summary.	<b>✓</b>
8.	Laboratory Chronicle and Holding Time Check.	<b>✓</b>
9.	Results submitted on a dry weight basis (if applicable).	<b>✓</b>
10.	Method Detection Limits.	<b>✓</b>
11.	Lab certified by NJDEP for parameters or appropriate category of parameters or a member of the USEPA CLP.	
12.	NonConformance Summary.	<b>✓</b>
	QC Reviewed/by 8	30 os

# INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC/MS VOLATILE ANALYSIS

	Lab Case Number: E05 - 0 8185		
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).	No	Ye
2.	GC/MS Tuning Specifications: a. BFB Passed		
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series, 12 hours for 8000 series and 8 hours for 500 series.	·	
4.	GC/MS Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours before sample analysis for 600 series, 12 hours for 8000 series		
5.	GC/MS Calibration Requirements: a. Calibration Check Compounds		
	b. System Performance Check Compounds		
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:	<b>✓</b>	
7.	Surrogate Recoveries Meet Criteria (If not met, list those compounds and their recoveries which fall outside the acceptable range)		
	If not met, were the calculations checked and the results qualified as "estimated"?	<del></del>	
8.	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range)		na
9.	Internal Standard Area/Retention Time Shift meet criteria		✓
10.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:		<u> </u>
11.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:		
12.	Sample Dilution Performed  High Target High Nontarget Matrix Interference Other  Compounds Compounds	- - 	
1.3	Comments:  8   15   05   Organics Manager  Date	-	

# INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC/MS SEMIVOLATILE ANALYSIS

Lab Case Number:

E05 - 08185

1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).	<u>No</u>	Yes
	GC/MS Tuning Specifications: a. DFTPP Passed		<u></u>
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series, 12 hours for 8000 series.		
4.	GC/MS Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours before sample analysis for 600 series.		
5.	GC/MS Calibration Requirements; a. Calibration Check Compounds b. System Performance Check Compounds		<b>√</b>
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:  a. B/N Fraction  b. Acid Fraction	<u></u>	
7.	Surrogate Recoveries Meet Criteria (If not met, list those compounds and their recoveries which fall outside the acceptable range)  a. B/N Fraction  b. Acid Fraction  If not met, were the calculations checked and the results qualified as "estimated"?	-	
8.	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range)  a. B/N Fraction  b. Acid Fraction		na
9.	Internal Standard Area/Retention Time Shift meet criteria	-	1
10.	Extraction Holding Time Met  If not met, list number of days exceeded for each sample:		<b>✓</b>
	Analysis Holding Time Met If not met, list number of days exceeded for each sample:	-	<b>/</b>
- 12. :	Sample Dilution Performed  High Nontarget	· / _	
] 13. 1	Compounds Compounds Matrix Interference Other  Community:		
-	Organics Manager 8-9.05  Date		

#### REVISED SUMMARY REPORT

#### Client: Environmental Waste Management Associates, LLC.

Project: 163 RIVER RD-203711 Lab Case No.: E05-08185

	Lab ID:	0818	5-001	0818	5-002	081	85-003	081	35-004
	Client ID:	3Y-	B14	3Y-	3Y-B14		Y-B14	3Y	-B11
	Depth:	0/0	).5	17/17.5		. 4	1/4.5	2	/2.5
	Matrix:		oil	S	oil		Soil		Soil
	Sampled Date	8/4	/05	8/4	1/05	8	/4/05	8/	4/05
PARAMETER(Units)		Conc C	MDL	Conc	Q MDL	Conc	Q MDL	Conc	Q MDL
Volatiles (mg/Kg-ppm)									
Benzene		~	~	ND		0.336			0.699
Toluene		~	~	ND	0.489		0.476		0.699
Ethylbenzene		~	~	ND	0.489		0.476		0.699
Total Xylenes		~	~	ND	0.489		0.476		0.699
TOTAL VO's:				ND		0.336	J	40.9	
TOTAL TIC's:		~	~	ND		14.5		5.20	
TOTAL VO's & TIC's:		~	~	ND		14.8	J	46.1	
Semivolatiles - BN (mg/l	Kg-ppm)							·	
Naphthalene		~	~	~	~	77.6	0.934		
2-Methylnaphthalene		~	~	~	~	38.6	0.934		
Acenaphthylene		~	~	~	~	3.93	0.934		~
Acenaphthene		~	~	~	~	45.6	0.934	~	~
Dibenzofuran		~	~	~	~	29.1	0.934	~	~
Fluorene		~	~	~	~	46.4	0.934	~	~
Phenanthrene		~	~	~	~	114	0.934	~	~
Anthracene		~	~	~	~	45.3	0.934	~	~
Carbazole		~	~	~	~	16.0	0.934	~	~
Fluoranthene		~	~	~	~	98.4	0.934	~	~
Pyrene		~	~	~	~	71.5	0.934	~	~
Benzo[a]anthracene		~	~	~	~	40.9	0.934	~	~
Chrysene		~	~	~	~	41.4	0.934	~	~
Benzo[b]fluoranthene		~	~	~	~	26.1	0.934	~	~
Benzo[k]fluoranthene		~	~	~	~	21.8	0.934	~	~
Benzo[a]pyrene		~	~	~	~	31.8	0.934	~	~
Indeno[1,2,3-cd]pyrene		~	~	~	~	17.1	0.934	~	~
Dibenz[a,h]anthracene		~	~	~	~	8.10	0.934	~	~
Benzo[g,h,i]perylene		~	~	~	~	16.6	0.934	~	~
TOTAL BN'S:						790			·
TOTAL TIC's:		~	~	~	~	152		~	~
TOTAL BN'S & TIC's:		~	~	~	~	942		~	~
General Analytical									
Ammonia(mg/Kg-ppm)	_	ND	0.211	ND	0.242	0.378	0.244	0.411	0.257

 $[\]sim$  = Sample not analyzed for

ND = Analyzed for but Not Detected at the MDL

J = The concentration was detected at a value below the MDL

All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.

#### REVISED SUMMARY REPORT

Client: Environmental Waste Management Associates, LLC.

Project: 163 RIVER RD-203711 Lab Case No.: E05-08185

		Lab	_ase	110.: 1	702-091	02 					, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	Lab ID:	081	85-(	005	0818	35-006	081	85.	007 08185-008			
	Client ID:	3	3Y-B9		3Y-B12		3Y-B13		3Y-B10			
	Depth:	6	5.5/7	7	2.	<b>/2.5</b>	: 2	2/2.	5	2/2.5		
	Matrix:		Soil		S	oil	: ;	Soi	1	;	Soil	
	Sampled Date		/4/0:	5		4/05		/4/(			/4/05	
PARAMETER(Units)		Conc	Q	MDL	Conc	Q MDL	Conc	Q	MDL	Conc	Q MDL	
Volatiles (mg/Kg-ppm)	:											
trans-1,2-Dichloroethene		0.222			ND	0.741	ND		0.757		0.752	
Benzene		0.183	J	0.821	21.0	0.371	5.71		0.757	ND	0.752	
Toluene		ND		0.821	3.87	0.741	0.549	J			0.752	
Ethylbenzene		ND		0.821	5.14	0.741	1.09		0.757	ND	0.752	
Total Xylenes		ND		0.821	4.92	0.741	2.05		0.757	ND	0.752	
Isopropylbenzene		0.203	J	0.821	1.43	0.741	0.366	J	0.757	ND	0.752	
TOTAL VO's:		0.608	J		36.4		9.77	J		ND		
TOTAL TIC's:		18.5			72.9		9.92			ND		
TOTAL VO's & TIC's:		19.1	J		109		19.7	J		ND		
General Analytical									0.040	<b>.</b>	0.050	
Ammonia(mg/Kg-ppm)		0.997		0.243	ND	0.237	0.568		0.260	ND	0.259	
	Lab ID:	081				35-010						
	Client ID:		Y-B			<b>7-B7</b>						
	Depth:		5.5/7			.5/7						
	Matrix:		Soil			oil						
	Sampled Date		/4/0			4/05						
PARAMETER(Units)		Conc	Q	MDL	Conc	Q MDL						
Volatiles (mg/Kg-ppm)	<del>-</del>											
Benzene		0.882		0.476	5.81	0.389						
Ethylbenzene		1.57		0.953	1.21	0.778						
Total Xylenes		ND		0.953	2.64	0.778						
TOTAL VO's:		2.45			9.66							
TOTAL TIC's:		178			110							
TOTAL VO's & TIC's:		180			120							
General Analytical												
Ammonia(mg/Kg-ppm)		1.50		0.343	0.984	0.249						

ND = Analyzed for but Not Detected at the MDL

J = The concentration was detected at a value below the MDL

All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.

## CAMPACIA ATEN ANAL VTICAL LARORATORIES

273 Franklin Rd

REV 10/03

Phone # (973) 361-4252	INTEGRA	CHAIN OF C	TISTODY				Randelph, NJ 67869
Paz # (973) 989-5288				te (starts the following	duy if samples rec	d at lab > 5PM	)
CLIENT & PROJECT	REPORTING &	BILLING	Conditional / TP		Results seed		Report Format
Company EWMH	Fax to:			2 hr 1 wk NA	<u> </u>		Results Only
	Pax#1		i -	, m	•	• • •	Reduced
Address:	EMail to:		Verhal/Fax				Regulatory
	Report to:		1	2 hr* 1 wk* Ewk/Std	ا		SRP Disking dof or will
	Address:		Hard Copy		E	1	Special Requirements
			72 hr* 1 wk* 2			l prott 6	wahanaa mili awalu
Telephant #:				le arrival, Lab noti			** Circle format required
Fux #:	Invoice to:			L PARAMETERS	123 123	123 123	123
Project Name: 163 River Rd	Address:			123 123 123 456 456 456	456 456	456 456	436
Project Manager: Ajay Kathuria				////	'	///	
Reference ID#: 203 711 PC#:		SAMPLE MATRIX	1 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/ / /		/ /	2, NaOH 4. H,504  6, McOH FLOSER
	₩-₩ 0-0	Wasto \$1 Sludge A - Aquenus	Votlo Amouia	/ / /		/ /	COOLER TEMP.
SAMPLE INFORMATION	UW-	- Groundwater SOL - Sulid	12/3/	/ / /		/ /	/ 5/ 10
Sample ID Sample Depth (in Feet) Date	Samplian # Mu	chrix Containers Lab ID			<del>                                     </del>		Comments/Area of Concern
34-B14 (0-0.5) 8/4/5	- 920 A So	ril / 1	W X				HMMONIA ONLY
34-B14 (17-17.5)	915	22	<b>XX</b>				
3Y-BI4 (4-4.5)	945	1 3					
34-811 (2-2.5)	1015	1 4					
34-12-34-B9 (6.5-7)	400 1	5					
34-812 (2-2-5)	1230	1 6					
34-813 (2-2.5)	10 00	1112			<del></del>		ļ <del></del>
34-810 (2-2-5)	1100	8					<u> </u>
34-BL (6-5-7)	, 100 X	.\.\.\\					
34-87 (6-5-7)	200 X	W V 13	VV				
Please print legibly and fill out completely. Sumples cannot	be processed and the turnur	round time will not start until a	ny madiguities have been ruso	ived.	Known Haza	id. Yes o No	MDI. Reg
CUSTODY LOG					Describe:		GWQS OF SCC
Signature/Company/			Enstare/Company		Cons. Expected	Low Red High	
Relinquished by:	8.5.05 9	Received by:	hos	· Commo	nen		
Relinquished by:		Received by:	1	4 _			
itelinquished by:		Received by			Lab Case#	7	
Reliagnished by:		Received byt			3185	Descri	
		Parsived by:		1 1 7	5193	PAGE	a OF

### PROJECT INFORMATION



Case No.	E05-08185 Project 163 RIVER RD-203	3711	
Customer	EWMA - HQ	P.O.# NA	
Contact EMail Phone Report To Lanidex Ce 100 Misty Parsippany Attn: Ajay	nter Lane , NJ 07054	Received 8/5/2005 09:30  Verbal Due 8/26/2005  Report Due 9/2/2005  Bill To  Lanidex Center 100 Misty Lane  Parsippany, NJ 07054  Attn: Ajay Kathuria	
Report I		Conditional VOA	

Lab ID         Client Sa           08185-001         3Y-B14           08185-002         3Y-B14           08185-003         3Y-B14           08185-004         3Y-B11           08185-005         3Y-B9           08185-006         3Y-B12           08185-007         3Y-B13		Depth Top / Bottom 0 / 0.5 17 / 17.5 4 / 4.5 2 / 2.5 6.5 / 7 2 / 2.5 2 / 2.5	Sampling Time 8/4/2005@09:00 8/4/2005@09:15 8/4/2005@09:45 8/4/2005@10:15 8/4/2005@16:00 8/4/2005@10:20 8/4/2005@10:45	Matrix Soil Soil Soil Soil Soil Soil Soil	Unit         # of Containers           mg/Kg         1           mg/Kg         2           mg/Kg         2           mg/Kg         2           mg/Kg         2           mg/Kg         2           mg/Kg         2           mg/Kg         2           mg/Kg         2
08185-008 3Y-B10		2/25	8/4/2005@11:00	Soil	mg/Kg
08185-009 3Y-B6		6.5 / 7	8/4/2005@13:00	Soil	mg/Kg 2
08185-010 3Y-B7		6.5 / 7	8/4/2005@14:00	Soil	mg/Kg 2
Sample # Tests		Status QA	Method		
001 Ammonia (NH3	3)	Complete 350.			
002 PP VOA + 10		12.5222	OB S		
" TCL VOA + 10	i	Run 8260			
* Ammonia (NH3	<b>)</b> 1. H. H. K. STA 62		2 M		
003 PP VOA + 10	90 N. 200 S. 200 S. 1 J. 200 S. 1 (200 S. 1 J. 200 S. 1 (200 S. 1 J. 200 S. 1 J. 200 S. 1 (200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J. 200 S. 1 J.	Cancel 8260			
" TCL VOA + 10		Programme as a programme of the programme of	ÓB.		
" BN + 15	ا د موروف مهم در از در از در از در از در از در از در از در از در از در از در از در از در از در از در از در از در	Cancel 8270	K K		
" TCL BN + 15 " Ammonia (NH3		Run 8270 Complete 350.			
004 PP VOA + 10			DB A Section 1		
" TCL VOA + 10		Run 8260			
" Ammonia (NH3		Complete 350.	2 M		
005 PP VOA + 10	•	Cancel 8260			
" TCL VOA + 10		Run 8260	OB STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE ST		
" Ammonia (NH3		Complete 350.	2 M		
006 PP VOA + 10		Cancel 826	DB A REAL PROPERTY.		
" TCL VOA + 10		Run 8260			
" Ammonia (NH3			2 M		
007 PP VOA + 10		Cancel 8260	DB Lack too see too province see the leading to		

** TCL VOA +10 Run 8260B

## LABORATORY CUSTODY CHRONICLE

Case No.

E05-08185

Client

EWMA - HQ

**Project** 

163 RIVER RD-203711

	Preparation			Analysis			
			Date / Time	Analyst	Date / Time	Analyst	
Department: Volatiles FCL VOA + 10	08185-002	Soil	n/a	n/a	8/30/05	Xing	
11	-003	Soil	n/a	п/а	8/30/05	Xing	
tt	-004	Soil	n/a	n/a	8/30/05	Xing	
н	-005	Soil	n/a	n/a	8/30/05	Xing	
н	-006	Soil	n/a	n/a	8/30/05	Xing	
н	-007	Soil	n/a	n/a	8/30/05	Xing	
Н	-008	Soil	n/a	n/a	8/30/05	Xing	
н	-009	Soil	n/a	n/a	8/30/05	Xing	
н	-010	Soil	n/a	n/a	8/30/05	Xing	
Department: Semivolatiles FCL BN + 15	08185-003	Soil		Kou-Liang	8/23/05	JC	
Pepartment: Wet Chemistry Ammonia (NH3)	08185-001	Soil	n/a	n/a	8/9/05	Jackie	
	-002	Soil	n/a	n/a	8/9/05	Jackie	
11	-003	Soil	n/a	n/a	8/9/05	Jackie	
N	-004	Soil	n/a	n/a	8/9/05	Jackie	
tt .	-005	Soil	п/а	n/a	8/9/05	Jackie	
п	-006	Soil	n/a	n/a	8/9/05	Jackie	
11	-007	Soil	n/a	n/a	8/9/05	Jackie	
п	-008	Soil	n/a	n/a	8/9/05	Jackie	
4	-009	Soil	n/a	n/a	8/9/05	Jackie	
и	-010	Soil	n/a	n/a	8/9/05	Jackie	





#### ANALYTICAL DATA REPORT REVISED

Environmental Waste Management Associates, LLC.

Lanidex Center
100 Misty Lane
Parsippany, NJ 07054

Project Name: 163 RIVER ROAD-203711 IAL Case Number: E05-08234

These data have been reviewed and accepted by:

Michael H. Left, Ph.D. Laboratory Director

## **Sample Summary**

Case No.

E05-08234

Project Name 163 RIVER ROAD-203711

Customer

EWMA - HQ

Received On

8/5/2005@18:00

Lab ID Clie	ent Sample 1D	Depth Top / Bottom	Sampling Time	<u>Matrix</u>	# of Cont.
08234-001 3Y-	B8	6.5 / 7	8/5/2005@08:00	Soil	2
08234-002 3Y-		5 / 5.5	8/5/2005@10:15	Soil	2
08234-003 3Y-		4 / 4.5	8/5/2005@10:45	Soil	2
08234-004 3Y-		5/5.5	8/5/2005@11:20	Soil	2
08234-005 3Y-		5 / 5.5	8/5/2005@11:45	Soil	2

#### **MATRIX QUALIFIERS**

- A Indicates the sample is an Aqueous matrix.
- O Indicates the sample is an Oil matrix.
- **S** Indicates the sample is a <u>S</u>oil, <u>S</u>ludge or <u>S</u>ediment matrix.
- X Indicates the sample is an Other matrix as indicated by Client Chain of Custody.

#### DATA QUALIFIERS

- **B** Indicates the analyte was found in the <u>B</u>lank and in the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of the analyte.
- **C** Common Laboratory Contaminant.
- **D** The compound was reported from the <u>D</u>iluted analysis.
- **D.F.** Dilution Factor.
- **E** <u>E</u>stimated concentration, reported results are outside the calibrated range of the instrument.
- J Indicates an estimated value. The compound was detected at a value below the method detection limit but greater than zero. For GC/MS procedures, the mass spectral data meets the criteria required to identify the target compound.
- **MDL** Method Detection Limit.
- MI Indicates compound concentration could not be determined due to Matrix Interferences.
- NA Not Applicable.
- ND Indicates the compound was analyzed for but Not Detected at the MDL.

#### **REPORT QUALIFIERS**

All solid sample analyses are reported on a dry weight basis.

All solid sample values are corrected for original sample size and percent solids.

#### **REVISED**

#### **CONFORMANCE / NONCONFORMANCE SUMMARY**

Integrated Analytical Laboratories, LLC. received five (5) soil sample(s) from Environmental Waste Management Associates, LLC. (Project: 163 RIVER ROAD-203711) on August 5, 2005 for the analysis of:

- (5) TCL VOA + 10
- (5) Ammonia (NH3)

A review of the QA/QC measures for the analysis of the sample(s) contained in this report has been performed by:

Reviewed by

Date

## LABORATORY DELIVERABLES CHECK LIST

Lab Case Number: E05-08234 REVISED

		Check If Complete
1.	Cover Page, Title Page listing Lab Certification #, facility name	<b>✓</b>
	& address and date of report preparation.	
2.	Table of Contents.	<b>✓</b>
3.	Summary Sheets listing analytical results for all targeted and	<b>✓</b>
	non-targeted compounds.	
4.	Summary Table cross-referencing Field ID's vs. Lab ID's.	<b>✓</b>
5.	Document bound, paginated and legible.	<b>✓</b>
6.	Chain of Custody.	
7.	Methodology Summary.	<b>✓</b>
8.	Laboratory Chronicle and Holding Time Check.	<b>✓</b>
9.	Results submitted on a dry weight basis (if applicable).	✓
10.	Method Detection Limits.	<b>✓</b>
11.	Lab certified by NJDEP for parameters or appropriate category of	<b>✓</b>
	parameters or a member of the USEPA CLP.	
12.	NonConformance Summary.	
	a. Jamo 9/	6/05
	QC Reviewed by	Jaic

# INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC/MS VOLATILE ANALYSIS D. 1 V.

	Lab Case Number: E05 - 823 +		
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).	No	Y
2.	GC/MS Tuning Specifications: a. BFB Passed		- <u>-</u>
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 scries, 12 hours for 8000 series and 8 hours for 500 series.	-	
4.	GC/MS Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours before sample analysis for 600 series, 12 hours for 8000 series		
<b>5</b> .	GC/MS Calibration Requirements: a. Calibration Check Compounds		
	b. System Performance Check Compounds	•	
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		· —
7.	Surrogate Recoveries Meet Criteria (If not met, list those compounds and their recoveries which fall outside the acceptable range)		·
	If not met, were the calculations checked and the results qualified as "estimated"?	-	
8.	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range)		_ <u>~</u>
9.	Interna! Standard Area/Retention Time Shift meet criteria	_	
10.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:		
11.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:		
12.	Sample Dilution Performed  High Target High Nontings  Compounds Kisnic toleterence Compounds		· - <u>-</u>
; ;	Comments    13/05		

#### REVISED SUMMARY REPORT

Client: Environmental Waste Management Associates, LLC.

Project: 163 RIVER ROAD-203711 Lab Case No.: E05-08234

	Lab ID: Client ID: Depth: Matrix: Sampled Date	3	34- Y-I 6.5/ Soi /5/(	7 I	08234-002 3Y-B15 5/5.5 Soil 8/5/05		08234-003 3Y-B16 4/4.5 Soil 8/5/05		08234-004 3Y-B17 5/5.5 Soil 8/5/05		
PARAMETER(Units)			Q	MDL	Conc C	MDL	Conc	Q	MDL	Conc	Q MDL
Volatiles (mg/Kg-ppm)							!				
Benzene		0.248	J	0.672	ND	0.530	ND		0.489	ND	0.495
Trichloroethene		0.171	J	0.672	ND	0.530	ND		0.489	ND	0.495
Ethylbenzene		0.165	J	0.672	ND	0.530	ND		0.489	ND	0.495
TOTAL VO's:		0.584	J		ND		ND			ND	
TOTAL TIC's:		0.994			ND		ND			ND	
TOTAL TION											

General Analytical							
Ammonia(mg/Kg-ppm)	ND	0.236	ND	0.246 0.4	116 0.242	0.336	0.249

ND

ND

ND

Lab ID: 08234-005

1.58 J

Client ID: 3Y-B18

Depth: 5/5.5 Matrix: Soil Sampled Date 8/5/05

PARAMETER(Units)	Conc (	Q MDL
Volatiles (mg/Kg-ppm)		
TOTAL VO's:	ND	0.502
TOTAL TIC's:	0.643	
TOTAL VO's & TIC's:	0.643	
General Analytical	<del> </del>	
Ammonia(mg/Kg-ppm)	0.536	0.237

ND = Analyzed for but Not Detected at the MDL

TOTAL VO's & TIC's:

All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.

J = The concentration was detected at a value below the MDL

Phone # (973) 361-4252

## INTEGRATED ANALYTICAL LABORATORIES CHAIN OF CUSTODY

273 Frankiin Rd

Raudolph, NJ 07869

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RUSH Standard to   ANALYTICAL PARAMETERS   PRESERVATIVES	Hard Copy   Toke   Toke   2 mk   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/94   wh/	Report In:  Address:  Hard Copy 72 br* 1 wh* 2 wh* white Peter to sample strival, Lab notification in required. 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## PROJECT INFORMATION



Case No. E05-08234 Project 163 RIVER ROAD	-203711	•••
Customer EWMA - HQ	P.O.# NA	
Contact Ajay Kathuria  EMail ajay.kathuria@ewma.com	Received 8/5/2005 18:00 Verbal Due 8/26/2005 Report Due 9/2/2005	
Report To  Lanidex Center	<u>Bill To</u> Lanidex Center	
100 Misty Lane	100 Misty Lane	
Parsippany, NJ 07054	Parsippany, NJ 07054	
Attn: Ajay Kathuria	Attn: Ajay Kathuria	
Report Format Reduced  Additional Info State Form Field Sampling	Conditional VOA	

08234-003	3Y-B16	4 / 4.5	Sampling Time 8/5/2005@08:00 8/5/2005@10:15 8/5/2005@10:45 8/5/2005@11:20 8/5/2005@11:45	Soil	mg/Kg	# of Containers 2 2 2 2 2 2 2
Sample # Tes	<u>sts</u>	Status Q	A Method			

mpie #	<u>1 ests</u>	Status OA Metilou
001	PP VOA + 10	Cancel 8260B
25 × 413	TCL YOX'+10	Run 8260B
*	Ammonia (NH3)	Complete 350.2 M
002	PP.VOA+10	Cancel 8260B
*	TCL VOA + 10	Run 8260B
, - ,	Ammonia (NH3)	Complete 350.2 M
003	PP VOA + 10	Cancel 8260B
•	TCL VOA +10	Run 8260B
	Ammonia (NH3)	Complete 350.2 M
004	PP VOA + 10	Cancel 8260B
	TCL VOA + 10	Run 8260B
	Ammonia (NH3)	Complete 350.2 M
	PP VOA + 10	Cancel 8260B
	TCLVOA+10	Run 8260B
	Ammonia (NH3)	Complete 350.2 M

08/08/2005 13:00 by chuang - NOTE 1

PLEASE MEET SCC MDLs.

08/08/2005 13:00 by chuang - NOTE 2

VO COLLECTED IN ENCOR TO BE TRANSFERRED TO METHANOL.

## **PROJECT INFORMATION**



Case No. E05-08234

Project 163 RIVER ROAD-203711

08/23/2005 13:59 by ELLEN - REV/ADD

AS PER KIM'S CONVERSATION W/ CHRIS V., NEED TO REPORT TCL VO LIST. SAMPLES ALREADY RUN, REVISE NECESSARY PAGES.

FOR REPORTING: PLEASE REGENERATE THE ENTIRE REPORT.

ORIGINAL FAX - 8/22/2005

## SAMPLE RECEIPT VERIFICATION

ASE NO: E05 082	34	CLIENT:	Į.	WMA	
OOLER TEMPERATURE: 2°		_ ( See Chain of			
		_	Comments		
COC: COMPLETE / INCOM	PLEIE				
✓ = YES/NA					<del></del> 7
✓ Bottles Intact					
<ul> <li>✓ no-Missing Bottles</li> <li>✓ no-Extra Bottles</li> </ul>					
					·
<ul><li>✓ Sufficient Sample Volument</li><li>✓ no-headspace/bubbles</li></ul>					
<ul> <li>✓ Labels intact/correct</li> <li>✓ pH Check (exclude VC</li> </ul>	Os)¹				
✓ Correct bottles/preser ✓ Sufficient Holding/Pre	vative				
Sample to be Subcon	tracted				
All samples with "Analyze Immediately" hold the following tests: pH, Temperature, Free E	ling times will be analy: Residual Chlorine, Tota	zed by this laboratory pa I Residual Chiorine, Disc		This includes but is not fite.	timited to
All samples with "Analyze Immediately" hold the following tests: pH, Temperature, Free EADDITIONAL COMMENTS:	fing times will be analy: Residual Chlorine, Tota	Headow Ottomie, Die		This Includes but is not fite.	fimited to
All samples with "Analyze Immediately" hold the following tests: pH, Temperature, Free E ADDITIONAL COMMENTS:	ling times will be analy: Residual Chlorine, Tota	//	DAT	TE[8/5/05]	fimited to
All samples with "Analyze Immediately" hold the following tests: pH, Temperature, Free E ADDITIONAL COMMENTS:	ling times will be analy: Residual Chlorine, Tota	Headow Ottomie, Die		NO NO	fimited to
All samples with "Analyze Immediately" hold the following tests: pH, Temperature, Free EADDITIONAL COMMENTS: SAMPLE(S) VERIFIED BY: CORRECTIVE ACTION RE	ling times will be analy: Residual Chlorine, Tota	//	DAT SEE RELOW)	TE[8/5/05]	fimiled to
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All samples with "Analyze Immediately" hold the following tests: pH, Temperature, Free EADDITIONAL COMMENTS:  SAMPLE(S) VERIFIED BY:  CORRECTIVE ACTION RECLIENT NOTIFIED:  PROJECT CONTACT:  SUBCONTRACTED LAB: DATE SHIPPED:	ling times will be analy: Residual Chlorine, Tota INITIAL EQUIRED:	YES	DAT SEE RELOW)	NO NO	imited to

## LABORATORY CUSTODY CHRONICLE

Case No. E05-08234

Client EWMA - HQ

163 RIVER ROAD-203711 Project

			Preparation		Analysis	
			Date / Time	Analyst	Date / Time	Analyst
Department: Volatiles						
TCL VOA + 10	08234-001	Soil	n/a	n/a	8/23/05	
H	-002	Soil	n/a	n/a	8/23/05	
**	-003	Soil	n/a	n/a	8/23/05	
н	-004	Soil	n/a	n/a	8/23/05	
Ħ	-005	Soil	n/a	n/a	8/23/05	
Department: Wet Chemistry						
Ammonia (NH3)	08234-001	Soil	n/a	n/a	8/15/05	Jackie
п	-002	Soil	n/a	n/a	8/15/05	Jackie
н	-003	Soil	n/a	n/a	8/15/05	Jackie
н	-004	Soil	n/a	n/a	8/15/05	Jackie
Ħ	-005	Soil	n/a	n/a	8/15/05	Jackie

Review and Approval:



## ANALYTICAL DATA REPORT

Environmental Waste Management Associates, LLC.

Lanidex Center
100 Misty Lane
Parsippany, NJ 07054

Project Name: 163 RIVER ROAD - 203711 IAL Case Number: E05-08875

These data have been reviewed and accepted by:

Michael H. Leftin, Ph.D. Laboratory Director

## **Sample Summary**

Case No.

E05-08875

Project Name 163 RIVER ROAD - 203711

Customer

EWMA - HQ

Received On

8/24/2005@17:00

Lab ID	Client Sample 1D	Depth Top / Bottom	Sampling Time	<u>Matrix</u>	# of Cont.
08875-001	MW1	n/a	8/24/2005@12:23	Aqueous	3
08875-002	MW2	n/a	8/24/2005@11:37	Aqueous	3
08875-003	FB	n/a	8/24/2005@10:30	Aqueous	3
08875-004	ТВ	n/a	8/24/2005	Aqueous	2

Page 1 of 1 Printed on: 9/8/2005

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Duplicate Sample Results Summary	
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^{*} Methodology is included in the IAL Project Information Page

#### **MATRIX QUALIFIERS**

- A Indicates the sample is an Aqueous matrix.
- O Indicates the sample is an Oil matrix.
- **S** Indicates the sample is a <u>S</u>oil, <u>S</u>ludge or <u>S</u>ediment matrix.
- X Indicates the sample is an Other matrix as indicated by Client Chain of Custody.

#### **DATA QUALIFIERS**

- **B** Indicates the analyte was found in the <u>B</u>lank and in the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of the analyte.
- **C** Common Laboratory Contaminant.
- **D** The compound was reported from the <u>D</u>iluted analysis.
- D.F. Dilution Factor.
- **E** <u>E</u>stimated concentration, reported results are outside the calibrated range of the instrument.
- J Indicates an estimated value. The compound was detected at a value below the method detection limit but greater than zero. For GC/MS procedures, the mass spectral data meets the criteria required to identify the target compound.
- MDL Method Detection Limit.
- MI Indicates compound concentration could not be determined due to Matrix Interferences.
- NA Not Applicable.
- ND Indicates the compound was analyzed for but Not Detected at the MDL.

### **REPORT QUALIFIERS**

All solid sample analyses are reported on a dry weight basis.

All solid sample values are corrected for original sample size and percent solids.

## **CONFORMANCE / NONCONFORMANCE SUMMARY**

Integrated Analytical Laboratories, LLC. received four (4) aqueous sample(s) from Environmental Waste Management Associates, LLC. (Project: 163 RIVER ROAD - 203711) on August 24, 2005 for the analysis of:

- (3) PP VOA + 10
- (1) PP VOA
- (3) Ammonia (NH3)

A review of the QA/QC measures for the analysis of the sample(s) contained in this report has been performed by:

Mulinguju Reviewed by 9 9 05 Date

## LABORATORY DELIVERABLES CHECK LIST

Lab Case Number: E05-08875

		Check If Complete
1.	Cover Page, Title Page listing Lab Certification #, facility name & address and date of report preparation.	
2.	Table of Contents.	
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds.	
4.	Summary Table cross-referencing Field ID's vs. Lab ID's.	
5.	Document bound, paginated and legible.	
6.	Chain of Custody.	
7.	Methodology Summary.	
8.	Laboratory Chronicle and Holding Time Check.	
9.	Results submitted on a dry weight basis (if applicable).	<u> </u>
10.	Method Detection Limits.	
11.	Lab certified by NJDEP for parameters or appropriate category of parameters or a member of the USEPA CLP.	
12.	NonConformance Summary.	<b>✓</b>
	Mayney 91 QC Reviewed by	9 05 Pate

## INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC/MS VOLATILE ANALYSIS

	Lab Case Number: E05 - 8875	2.1	
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).	<u>No</u>	Yes
2.	GC/MS Tuning Specifications: a. BFB Passed	<del></del>	
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series, 12 hours for 8000 series and 8 hours for 500 series.		
4.	GC/MS Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours before sample analysis for 600 series, 12 hours for 8000 series	• •	
5.	GC/MS Calibration Requirements:  a. Calibration Check Compounds		Mr
	b. System Performance Check Compounds	<del></del>	NA
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		
7.	Surrogate Recoveries Meet Criteria (If not met, list those compounds and their recoveries which fall outside the acceptable range)		
	If not met, were the calculations checked and the results qualified as "estimated"?		NA
8.	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range)		NA
9.	Internal Standard Area/Retention Time Shift meet criteria		<i></i>
10.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:	•	_/A
11.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:		
	Sample Dilution Performed  High Target High Nontarget Compounds Compounds Matrix Interference Other  Comments:		
	Organics Manager Date		

#### **SUMMARY REPORT**

Client: Environmental Waste Management Associates, LLC.

Project: 163 RIVER ROAD - 203711 Lab Case No.: E05-08875

	Lab ID:	088	75-001	088	75-002	088	75-003	088	75-004	
	Client ID:	M	IW1	M	fW2		FB	TB		
	Matrix:	Aqueous		Aq	ueous	Aq	lueous	Aqueous		
	Sampled Date	8/24/05			24/05	8/	24/05	8/24/05		
PARAMETER(Units)		Conc	Q MDL	Conc	Q MDL	Conc	Q MDL	Conc	Q MDL	
Volatiles (µg/L-ppb)									:	
Chloroform		0.438	0.250	ND	0.250	ND	0.250	ND	0.250	
Benzene		1.31	0.250	ND	0.250	ND	0.250	ND	0.250	
Toluene		0.523	0.250	ND	0.250	ND	0.250	ND	0.250	
Ethylbenzene		0.471	0.250	ND	0.250	ND	0.250	ND	0.250	
Total Xylenes		1.88	0.480	ND	0.480	ND	0.480	ND	0.480	
TOTAL VO's:		4.62		ND		ND		ND		
TOTAL TIC's:		282		ND		ND		~		
TOTAL VO's & TIC's:		287		ND		ND		NA		
General Analytical						. ——				
Ammonia(µg/L-ppb)		3160	200_	6340	200	ND	200	~	~	

 $[\]sim$  = Sample not analyzed for

ND = Analyzed for but Not Detected at the MDL

## INTEGRATED ANALYTICAL LABORATORIES CHAIN OF CUSTODY

273 Franklin Rd

Fax # (973) 989-5288					CHAI	N OF	CUS	TOD	<u>Y</u>									Randolph	NJ 07869	
CLIENT & PROJECT		<u>REPO</u> I	RTIN	G & BIL	LING		_	Turna	round '	Time (st	arts the	following	day if s	amples r	ec'd at i	ab > 5PI	M)			
Company EWMH-P	ı	Fax to:					]	Condi	tional /	<b>TPHC</b>				Results no	eded by:			Report	Format	t
	,	Fax#:					1	24 hr*	48 hr	72 hr	1 wk	NA	I		State.	· Bitti		Resul	s Only	
Address:	1	EMail to:					1	Verba	l/Fax				,			(#) [EV		Red	uced	
	1	Report to:					1	24 hr*	48 hr*	72 hr*	1 wk*	2 wk/Std		్వ	TO			Regi	latory	
		Address:					1	<u>Hard</u>	Copy							a Pa		SRP Disk**:	dbf or v	vk1
Telephone #:							1	72 hr*	1 wk*	2 wk*	3 wk/Std			5	ID		Special Res	ulrements:		
Fax #:								*Pric	or to sa	mple ar	rival, L	ab noti	fication	is requ	ired. R	USH S	urchar	e will app	oly	
Project Name: 103 RIRA ROOD		Invoice to				<u> </u>	1	ANA	LYTIC	AL PA	RAME	ETERS	/PRE	SERV	ATIVI	E <b>S</b>	4	* Circle for	mat req	uired
Project Manager: ATOU KOTHUNA		Address:					1	12 3 4 5 6	123	(1)2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	123	123	1 2 3 4 5 6	1 2 3 4 5 6	1	reservativ	es
Location of Site (STATE):							]	$\overline{}$	7	7				7	/			1(80)	3.	HNO
Reference ID#: 2037   PO#: <u>89</u>	39						] /	' <u>2</u> /	<b>E</b>		/	/			/	/		2. NaOH	4.1	H.SO.
SAMPLE INFORMATION				W - Waste O - Oil	X - Other	A - Aqueou S - Soil	1,	₹/,	Timonity 1	5/								5. MeOH		Other
		Sampling	#	GW - Groun	# of	SOL - Solid	ጎ/ ≥	7 5		≥/	/ .				/	/		4	OOLER TE °C	
Sample ID Sample Depth (in Feet)	Date		am pm	<i>P</i> 11	Containers	LAUID		/	7_	<del>/</del>	/	<del>/     </del>		/	<del>/</del>	/_	/ Coi	nments/A	rea of C	Concern
1107	외게ග	12:23	<u>X</u>	90	3	(	X	ĻX	ļ			ļ				ļ			•	
MUZ		11:37	X	6W	3	2	X	ĮΧ,		ļ	<u> </u>						<u> </u>			
Fb		10:30	X	A	3	3	X	$\perp X$								<u> </u>				
Th	$\checkmark$	8:00	X	A	2	Y			$\perp X$						1					
			,	•		<b>'</b>														
																l				
					<del> </del>															
							T				İ						<b>-</b>			
Please print legibly and fill out completely. Samples	cannot be p	rocessed a	nd the tu	rnaround tit	ne will not s	tart until as	y ambi	guities hav	e been re	solved.	1		К	nown Haz	ard: Yes	r No	<del>                                     </del>	MD	L Req:	
CUSTODY LOG													Describe	:				GWQS	or SC	С
Signature/Company		Dat	ie .	Time		Si	gnatur	e/Compa	ny				Con	c. Expected	i: Low M	ed High				
Relinquished by:	IAh	824	ගුර	1600	Received t	y: //	3	R	2			Comment	1:							
Relinquished by:		8/24/	los	9.500	Received b	y://	7		AL	<u> </u>	1									
Relinquished by:					Received	y;	_						Lab Cas	e#						٠.
Relinquished by:					Received 1	y:					7				1	Describ	e			
Relinquished by:					Received 1	y:					7	18	87	J	1	PAGE:			OF	1

## PROJECT INFORMATION

003 PP VOA + 10

" Ammonia (NH3) 004 PP VOA



Case No. E05-08875 Project 163 RIVER ROAD - 2037	11
Customer EWMA - HQ	P.O. # L8939
Contact Ajay Kathuria  EMail ajay.kathuria@ewma.com	Received         8/24/2005 17:00           Verbal Due         9/9/2005           Report Due         9/16/2005
Report To  Lanidex Center  100 Misty Lane	Bill To  Lanidex Center  100 Misty Lane
Parsippany, NJ 07054  Attn: Ajay Kathuria	Parsippany, NJ 07054  Attn: Ajay Kathuria
Report Format Reduced	Conditional VOA

Lab ID 08875-001 08875-002 08875-003 08875-004	Client Sample ID MW1 MW2 FB TB	n/a	Sampling Time 8/24/2005@12:23 8/24/2005@11:37 8/24/2005@10:30 8/24/2005	Aqueous	Unit μg/L         # of Containers           μg/L         3           μg/L         3           μg/L         3           μg/L         2
Sample # Te	<u>sts</u>	Status Q	A Method		
	VOA + 10	Run 624			
™ Ami	monia (NH3)	Complete 350			
002 PP V	VOA + 10	Run 624			
" : Amı	monia (NH3)	Complete 350	1		

624 Complete 350.1

624

Run

Run

## LABORATORY CUSTODY CHRONICLE

Case No.

E05-08875

Client

EWMA - HQ

**Project** 

163 RIVER ROAD - 203711

			Preparation		<b>Analysis</b>	
			Date / Time	Analyst	Date / Time	Analyst
Department: Volatiles PP VOA	08875-004	Aqueous	n/a	n/a	8/31/05	Barbara
PP VOA + 10	-001	Aqueous	n/a	n/a	8/31/05	Barbara
Ħ	-002	Aqueous	n/a	n/a	8/31/05	Barbara
11	-003	Aqueous	n/a	n/a	8/31/05	Barbara
Department: Wet Chemistry Ammonia (NH3)	08875-001	Aqueous	n/a	n/a	8/26/05	Jackie
ч	-002	Aqueous	n/a	n/a	8/26/05	Jackie
н	-003	Aqueous	n/a	n/a	8/26/05	Jackie

Review and Approval: Mdylywyw



## ANALYTICAL DATA REPORT

Environmental Waste Management Associates, LLC.

Lanidex Center
100 Misty Lane
Parsippany, NJ 07054

Project Name: 163 OLD RIVER RD. IAL Case Number: E05-12580

These data have been reviewed and accepted by:

Michael H. Leftin, Ph.D. Laboratory Director

## **Sample Summary**

Case No.

E05-12580

Project Name 163 OLD RIVER RD.

Customer

EWMA - HQ

Received On

11/21/2005@17:00

Lab ID	Client Sample ID	Depth Top / Bottom	Sampling Time	<u>Matrix</u>	# of Cout.
12580-001	B-19	6 / 6.5	11/21/2005@09:00	Soil	2
12580-002	B-20	5.5 / 6	11/21/2005@09:45	Soil	2
12580-003	B-21	6 / 6.5	11/21/2005@10:30	Soil	2
12580-004	B-22	5 / 5.5	11/21/2005@11:00	Soil	2
12580-005	B-23	6 / 6.5	11/21/2005@11:30	Soil	2
12580-006	B-24	6.5 / 7	11/21/2005@12:00	Soil	2
12580-007	B-25	2/2.5	11/21/2005@13:00	Soil	2
12580-008	B-27	6 / 6.5	11/21/2005@13:30	Soil	2

#### **TABLE OF CONTENTS**

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Methodology Summary *	
Quality Control Volatiles Tuning Results Summary Method Blank Results Summary Calibration Summary Surrogate Compound Recovery Results Summary Matrix Spike/Matrix Spike Duplicate Results Summary Internal Standard Summary Chromatograms	22
Sample Tracking	
Chains of Custody Laboratory Chronicle	137 140

^{*} Methodology is included in the IAL Project Information Page

#### **MATRIX QUALIFIERS**

- A Indicates the sample is an Aqueous matrix.
- **O** Indicates the sample is an Oil matrix.
- **S** Indicates the sample is a <u>S</u>oil, <u>S</u>ludge or <u>S</u>ediment matrix.
- X Indicates the sample is an Other matrix as indicated by Client Chain of Custody.

#### **DATA QUALIFIERS**

- **B** Indicates the analyte was found in the <u>B</u>lank and in the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of the analyte.
- **C** Common Laboratory Contaminant.
- **D** The compound was reported from the <u>D</u>iluted analysis.
- **D.F.** Dilution Factor.
- **E** <u>E</u>stimated concentration, reported results are outside the calibrated range of the instrument.
- J Indicates an estimated value. The compound was detected at a value below the method detection limit but greater than zero. For GC/MS procedures, the mass spectral data meets the criteria required to identify the target compound.
- MDL Method Detection Limit.
- MI Indicates compound concentration could not be determined due to Matrix Interferences.
- NA Not Applicable.
- ND Indicates the compound was analyzed for but Not Detected at the MDL.

#### REPORT QUALIFIERS

All solid sample analyses are reported on a dry weight basis.

All solid sample values are corrected for original sample size and percent solids.

#### **CONFORMANCE / NONCONFORMANCE SUMMARY**

Integrated Analytical Laboratories, LLC. received eight (8) soil sample(s) from Environmental Waste Management Associates, LLC. (Project: 163 OLD RIVER RD.) on November 21, 2005 for the analysis of:

(8) PP VOA + 10

A review of the QA/QC measures for the analysis of the sample(s) contained in this report has been performed by:

Kamsay Shadis
Reviewed by

/2/8/65 Date

### LABORATORY DELIVERABLES CHECK LIST

Lab Case Number: E05-12580

		Check If Complete
1.	Cover Page, Title Page listing Lab Certification #, facility name	✓
	& address and date of report preparation.	
2.	Table of Contents.	<b>✓</b>
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds.	
4.	Summary Table cross-referencing Field ID's vs. Lab ID's.	<b>✓</b>
5.	Document bound, paginated and legible.	<b>✓</b>
6.	Chain of Custody.	<b>✓</b>
7.	Methodology Summary.	<u> </u>
8.	Laboratory Chronicle and Holding Time Check.	✓
9.	Results submitted on a dry weight basis (if applicable).	<b>✓</b>
10.	Method Detection Limits.	
11.	Lab certified by NJDEP for parameters or appropriate category of parameters or a member of the USEPA CLP.	
12.	NonConformance Summary.	
	Ransay Shadis 12/8 QC Reviewed by	ate

# INTEGRATED ANALYTICAL LABORATORIES CONFORMANCE/NONCONFORMANCE SUMMARY GC/MS VOLATILE ANALYSIS

	Lab Case Number: E05 - /25 80		
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).	<u>No</u>	<u>Yes</u> ✓
2.	GC/MS Tuning Specifications: a. BFB Passed	-	
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series, 12 hours for 8000 series and 8 hours for 500 series.		
4.	GC/MS Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours before sample analysis for 600 series, 12 hours for 8000 series		
<b>5</b> .	GC/MS Calibration Requirements: a. Calibration Check Compounds		
	b. System Performance Check Compounds		/
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		
7.	Surrogate Recoveries Meet Criteria (If not met, list those compounds and their recoveries which fall outside the acceptable range)	<del>-</del>	
	If not met, were the calculations checked and the results qualified as "estimated"?		na
8.	Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range)		
9.	Internal Standard Area/Retention Time Shift meet criteria	<b>-</b>	✓
10.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:		✓
11.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:		✓
12.	Sample Dilution Performed  High Target High Nontarget	· ·	/
13.	Compounds Compounds Matrix Interference Other  Comments:		
	Organics Manager Date		

#### **SUMMARY REPORT**

Client: Environmental Waste Management Associates, LLC.

Project: 163 OLD RIVER RD. Lab Case No.: E05-12580

12580-003

	Lab ID:	1258	80-001	1		-002	:		-003	125		
	Client ID:	В	-19	B-20			B-21			B-22		2
	Depth:	6	/6.5	į <u> </u>	5.5/	6	6/6.5			5	/5.5	5
	Matrix:	S	Soil	Soil			Soil				Soil	l į
	Sampled Date	11/	11/21/05		11/21/05			11/21/05			11/21/05	
PARAMETER(Units)		Conc	Q MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Volatiles (Units)		(mg/Kg-ppm)		(mg/Kg-ppm)		(mg/Kg-ppm)			(mg/Kg-ppm)		ppm)	
Benzene		0.663	0.448	1.06		0.903	0.221		0.594	0,592		0.818
Toluene		ND	0.895	ND		0.903	0.349		0.594	ND		0.818
Ethylbenzene		ND	0.895	0.476	J	0.903	0.138	J	0.594	0.324		0.818
Total Xylenes		ND	0.895	ND		0.903	1.31		0.594	0.294	J	0.818
		-		!				_			_	1
TOTAL VO's:		0.663		1.54	J		2.02	J		1.21	J	İ
TOTAL TIC's:		122		214			53.5	_		14.9	_	
TOTAL VO's & TIC's:		123		216	J			J		16.1	J	
		12580-005							12580-007			
	Lab ID:					006				125		
	Lab ID: Client ID:	В	-23	1	B-2	4	1	3-2	5	F	3-27	,
		В		. (	B-24 5.5/	4 7	1 2	3-2: :/2.:	5 5	F 6	3-27 /6.5	! !
	Client ID:	B 6/ S	1–23 /6.5 Soil	. (	B-2/ 5.5/ Soil	4 7 I	1 2	3-2: 3/2.: Soil	5 5 I	6 5	3-27 /6.5 Soil	; 5
	Client ID: Depth:	B 6/ S 11/	i-23 /6.5 Soil 21/05	11	B-2/ 5.5/ Soii /21/	4 7 I /05	1 2 11	3-2: 2/2.: Soi! /21/	5 5 1 <b>/0</b> 5	H 6 3 11/	3-27 /6.5 Soil /21/	, , 05
PARAMETER(Units)	Client ID: Depth: Matrix:	B 6/ S 11/	1–23 /6.5 Soil	11	B-2/ 5.5/ Soii /21/	4 7 I	1 2 11	3-2: 2/2.: Soi! /21/	5 5 I	H 6 3 11/	3-27 /6.5 Soil /21/	, , 05
PARAMETER(Units)  Volatiles (Units)	Client ID: Depth: Matrix:	8 6/ 8 11/2 Conc	i-23 /6.5 Soil 21/05	11	B-24 5.5/ Soil /21/ Q	4 7 I /05 MDL	1 2 11	3-2: 3/2.: Soil /21/ Q	5 5 1 <b>(05</b> MDL	H 6 3 11/	8-27 5/6,5 Soil /21/ Q	05 MDL
	Client ID: Depth: Matrix:	8 6/6 S 11/2 Conc (mg/K)	-23 /6.5 Soil 21/05 Q MDL	11 Conc (mg/	B-24 5.5/ Soil /21/ Q	4 7 1 /05 MDL ppm) 0.608	11. Conc (mg/1	3-2: 3/2.: Soil /21/ Q	5 5 1 (05 MDL (ppm) 0.394	11/ Conc (mg/I	3-27 5/6,5 Soil 21/ Q (g-p)	05 MDL pm)
Volatiles (Units)	Client ID: Depth: Matrix:	B 6/ S 11// Conc (mg/K ND ND	7-23 76.5 Soil 21/05 Q MDL (g-ppm) 0.539 1.08	11 Conc (mg/. ND ND	B-24 5.5/ Soil /21/ Q	4 7 1 /05 MDL ppm) 0.608 0.608	11. Conc (mg/s	3-2: 3/2.: Soil /21/ Q	5 1 (05 MDL (ppm) 0.394 0.787	Conc (mg/l ND ND	3-27 5/6,5 Soil /21/ Q /(g-p)	05 MDL pm) 0.648 0.648
Volatiles (Units) Benzene	Client ID: Depth: Matrix:	8 6/6 S 11/2 Conc (mg/K)	7-23 76.5 Soil 21/05 Q MDL (g-ppm) 0.539	111 Conc (mg/ND ND ND ND	B-24 5.5/ Soil /21/ Q	4 7 1 /05 MDL ppm) 0.608 0.608 0.608	11. Conc (mg/s 31.3 60.0 ND	3-2: 3/2.: Soil /21/ Q	5 5 1 (05 MDL ppm) 0.394 0.787 0.787	11/ Conc (mg/I ND ND ND	3-27 5/6,5 Soil /21/ Q 	05 MDL pm) 0.648 0.648
Volatiles (Units) Benzene Toluene	Client ID: Depth: Matrix:	B 6/ S 11// Conc (mg/K ND ND	7-23 76.5 Soil 21/05 Q MDL (g-ppm) 0.539 1.08	11 Conc (mg/. ND ND	B-24 5.5/ Soil /21/ Q	4 7 1 /05 MDL ppm) 0.608 0.608	11. Conc (mg/s	3-2: 3/2.: Soil /21/ Q	5 1 (05 MDL (ppm) 0.394 0.787	Conc (mg/l ND ND	3-27 5/6,5 Soil /21/ Q 	05 MDL pm) 0.648 0.648
Volatiles (Units) Benzene Toluene Ethylbenzene Total Xylenes	Client ID: Depth: Matrix:	Conc (mg/K ND ND 12.6	7-23 76.5 Foil 21/05 Q MDL (g-ppm) 0.539 1.08 1.08	111 Conc (mg/ND ND ND ND	B-24 5.5/ Soil /21/ Q	4 7 1 /05 MDL ppm) 0.608 0.608 0.608	11. Conc (mg/s 31.3 60.0 ND	3-2: 3/2.: Soil /21/ Q	5 5 1 (05 MDL ppm) 0.394 0.787 0.787	11/ Conc (mg/I ND ND ND	3-27 5/6,5 Soil /21/ Q 	05 MDL pm) 0.648 0.648
Volatiles (Units) Benzene Toluene Ethylbenzene	Client ID: Depth: Matrix:	86 S 11/2 Conc (mg/K ND ND 12.6 7.60	7-23 76.5 Foil 21/05 Q MDL (g-ppm) 0.539 1.08 1.08	111 Conc (mg/ ND ND ND ND ND ND	B-24 5.5/ Soil /21/ Q	4 7 1 /05 MDL ppm) 0.608 0.608 0.608	11. Conc (mg/s) 31.3 60.0 ND ND	3-2: 3/2.: Soil /21/ Q	5 5 1 (05 MDL ppm) 0.394 0.787 0.787	11/ Conc (mg/I ND ND ND ND	3-27 5/6,5 Soil /21/ Q 	05 MDL pm) 0.648 0.648

ND = Analyzed for but Not Detected at the MDL

J = The concentration was detected at a value below the MDL

All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.

Phone # (973) 361-4252 Fax # (973) 989-5288

## INTEGRATED ANALYTICAL LABORATORIES CHAIN OF CUSTODY

273 Franklin Rd Randolph, NJ 07869

01/2005

																						<del> </del>
CUSTOMER INFO	RI	<b>EPORTING</b>	INFO		_					s the follow	-											
Company: EWMA	REPORT TO:				Lab notification is required for RUSH TAT prior to sample arrival. RUSH TAT IS NOT GUARANTEED WITHOUT LAB APPROVAL. RUSH SURCHARGES WILL APPLY IF ABLE TO																	
Address:	Address:					ACCO				IOUI EA	ער מו	INOVAL	A RUS	JII JUK		1265 1	V 1.1.23	UAL		1 11. 7.	·	
						Condit	iona	I TPH	<u>IC</u>			Results neede	d by:	Rush TAT	Charge **	Re	port l	Form	at	DI	SKE	TTE
Telephone #:	Attn:					24 hr*	4	8 hr	72 hr	NA						R	esult	s Only	у		dbf fo	rmat
Fax #:	FAX #					<u>Verbal</u>	/Fax		2 y	k/Std				24 hr - : 48 hr -	100% 75%		Red	aced	$\supset$		wk1 fo	rmat
Project Manager: Paul Schatz INVOICE								24 hr* 48 hr* 72 hr* 1 wk*						72 hr - 50% 96 hr - 35% 5 day - 25% 6-9 day 10%		I	Regul	atory	,	lab approved custom		
Sampler: Chais Viani	Address:					Hard Copy 3 wk/Std						Other (describe)				EDD						
Project Name: 168 Old River R1						2 wk* call for price										NO DISK/CD REQ'D						
Project Location (State):				$\neg$	ANALYTICAL PARAMETERS							m <u>4</u> .c										
Bottle Order #:	Attn:				$\neg$	43		2	1								ــــــــــــــــــــــــــــــــــــــ	Cooler	Temp	=	_~	
Quote #:	PO #				٦		7															
L	<b></b>	Sample Ma	atrix	STARS  STARS  1-15 +2							# BOT					S						
	DW - Drinking Water	DW - Drinking Water AQ - Aqueous WW - Waste Water					Ž	L PA PAH				,		ļ		<u>PRESERVATIVES</u>						
SAMPLE INFORMATION		OI - Oil LIQ - Liquid (Specify) OT - Other (Specify) S - Soil SL - Sludge SOL - Solid W - Wipe				© TC	TBA	S Z														
Client ID Depth	Sampling	\$	- Wipe Matrix	#.	IAL#	92     92	MTBE	8270 63 BNA								E H	NaOH	HN03	H2S04	MeOH	Other	erie erie
13-19 6-6-5	11/21/5	7:00 5	5 vrl	container	1	<del>,</del>	<u> </u>	<u>86</u>								-	Z	-	<u> </u>		+	T.
R-20 5.5-6	11/1-11/6	75	7	197	2	1	+					-			ļ	<del>                                     </del>	<del></del>			$\vdash \vdash$	_	1
B-21 6-6.5		0 30	-	+ 1 +	Î	$\vdash$	+-							+		-	-			$\vdash$	$\dashv$	+ +
8-22 5-5.5		1	_		<u>م</u>	H	╁			<del>  -</del>				+			<del> </del>	-		$\vdash \vdash$	-	++
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Known Hazard: Yes or No Describe:								Con	c. Expe	cted: (Lo	w M	led High						<u> </u>	<del></del>			
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ambiguities have been resolved.  Signafule/Company	Date T	lime	Sir	gnature/Com	nany				***		C	omments:										
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### **PROJECT INFORMATION**



Case No. E05-12580	Project 163 OLD RIVER R	D.		tari su iti Takutus ya asay wa	
Customer EWMA - HQ		P.O. #			
Contact Paul Schatz EMail Paul.Schatz@ewr Phone (973) 560-1400	ma.com	Verbal Due 12	/21/2005 17:00 /8/2005 /15/2005	<b>)</b>	
Report To		Bill To			
Lanidex Center		Lanidex Center			
100 Misty Lane		100 Misty Lane			
Parsippany, NJ 07054		Parsippany, NJ 07	054		
Attn: Paul Schatz		Attn: Paul Schatz			
Report Format Redu	State Form Field Sampling	Conditional VOA			
Lab ID Client Samp	ole ID Depth Top / Bot	tom Sampling Time 11/21/2005@09:00	<u>Matrix</u> Soil	<u>Unit</u> mg/Kg	# of Containers 2

<u>Lab ID</u>	Client Sample ID	Depth Top / Botto	om Sampling Lime	MALLIX	<u>Ont</u>	# of Containers
12580-001	B-19	6 / 6.5	11/21/2005@09:00	Soil	mg/Kg	2
12580-002	B-20	5.5 / 6	11/21/2005@09:45	Soil	mg/Kg	2
12580-003	B-21	6 / 6.5	11/21/2005@10:30	Soil	mg/Kg	2
12580-004	B-22	5 / 5.5	11/21/2005@11:00	Soil	mg/Kg	2
12580-005	B-23	6 / 6.5	11/21/2005@11:30	Soil	mg/Kg	2
12580-006	B-24	6.5 / 7	11/21/2005@12:00	Soil	mg/Kg	ुस्ति । 2
12580-007	B-25	2/2.5	11/21/2005@13:00	Soil	mg/Kg	2
12580-008	B-27	6 / 6.5	11/21/2005@13:30	Soil	mg/Kg	
Sample # Te	e <u>sts</u>	<u>Status</u>	<b>OA Method</b>			
001 PP	VOA + 10 - MeOH Preserved	Run	8260B			
002 PP	VOA + 10 - MeOH Preserved	Run	8260B			
003 PP	VOA + 10 - MeOH Preserved	Run	8260B			
004 PP	VOA + 10 - MeOH Preserved	Run	8260B			
005 PP	VOA + 10 - MeOH Preserved	Run	8260B			
006 PP	VOA + 10 - MeOH Preserved	Run	8260B			
007 PP	VOA + 10 - MeOH Preserved	Run	8260B			

Run

8260B

11/22/2005 08:34 by Ellen - NOTE 1

008 PP VOA + 10 - MeOH Preserved

VO COLLECTED IN ENCOR TO BE TRANSFERRED TO METHANOL.

PLEASE MEET SCC MDLs.

## LABORATORY CUSTODY CHRONICLE

Case No.

E05-12580

Client

EWMA - HQ

**Project** 

163 OLD RIVER RD.

			Preparation	Analysis					
			Date / Time	Analyst	Date / Time	Analyst			
Department: Volatiles									
PP VOA + 10 - MeOH Preserved	12580-001	Soil	n/a	n/a	12/2/05	Xing			
11	-002	Soil	n/a	n/a	12/2/05	Xing			
<b>H</b>	-003	Soil	n/a	n/a	12/2/05	Xing			
•	-004	Soil	n/a	n/a	12/2/05	Xing			
41	-005	Soil	n/a	n/a	12/2/05	Xing			
и	-006	Soil	n/a	n/a	12/2/05	Xing			
91	-007	Soil	n/a	n/a	12/2/05	Xing			
d	-008	Soil	n/a	n/a	12/2/05	Xing			

Review and Approval: Afamsay Shadis

